



REMOVAL SUPPORT TEAM
EPA CONTRACT 68-W-00-113

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RST-02-F-01371

TRANSMITTAL MEMO

To: Eric Wilson
Removal Action Branch,
U.S. EPA Region II

From: Jeralyn Guthrie, Data Reviewer
RST Region II

Subject: Cornell Dubilier Electronics Site
Data Validation Assessment

Date: February 16, 2004

The purpose of this memo is to transmit the following information:

- Data validation results for the following parameters:

PCBs 44 samples

- Matrices and Number of Samples

Soil 44 samples

- Sampling date: December 02, 2003

The final data assessment narrative and original analytical data package are attached.

cc: RST PM: Dean Maser
RST SITE FILE TDD #: 02-03-11-0018
ANALYTICAL TDD #: 02-03-12-0006
PCS# 4229



U.S. ENVIRONMENTAL PROTECTION AGENCY

MEMORANDUM

DATE: February 9, 2004

TO: Eric Wilson
USEPA Region II

FROM: Jeralyn Guthrie
RST Data Review Team

SUBJECT: QA/QC Compliance Review Summary

As requested quality control and performance measures for the data packages noted have been examined and compared to EPA standards for compliance. Measures for the following general areas were evaluated as applicable:


Data Completeness	Blanks
Spectra Matching Quality	DFTPP and BFB Tuning
Surrogate Spikes	Chromatography
Matrix Spikes/Duplicates	Holding Times
Calibration	Compound ID (HSL, TIC)

Any statistical measures used to support the following conclusions are attached so that the review may be reviewed by others.

Summary of Results

	<u>I</u> <u>PCB</u>	<u>II</u>	<u>III</u>	<u>IV</u>
Acceptable as Submitted	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Acceptable with Comments	<u> X </u>	<u> </u>	<u> </u>	<u> </u>
Unacceptable, Action Pending	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Unacceptable	<u> </u>	<u> </u>	<u> </u>	<u> </u>

Data Reviewed by: Jeralyn Guthrie Date: 02/09/2004

Approved By:  Date: 2/13/2004

Area Code/Phone No.: (732) 225-6116

NARRATIVE

CASE No. 3154

SITE NAME: Cornell Dubilier Electronics Site

No. 126 Spicer Avenue, South Plainfield, New Jersey

Laboratory Name: Accutest Laboratories, 2235 Route 130, Dayton, New Jersey 08810.

INTRODUCTION:

The laboratory's portion of this Case consisted of twenty-four (44) soil samples collected on December 02, 2003.

The laboratory reported no problem(s) with the receipt of these samples.

The laboratory reported a Minor problem with the analyses of PCB parameters.

The evaluator has commented on the criteria specified under each fraction heading. All criteria have been assessed, but no discussion is given where the evaluator has determined that criteria were adequately performed or require no comment. Details relevant to these comments are given on the following forms.

Appropriate Form I's and Chain of Custody have been copied from the original data package and appended to the data assessment narrative for reference.

I. Pesticides/PCB:

Y Holding Times

Y Instrument Performance

Y Surrogate Recovery

Y MS/MSD

Y Compound ID

Y Chromatography

Y Initial and Continuing Calibration

Y Blanks

Y Retention Time Window

Y Analytical Sequence

Y RT Check for TCS and DCB

Comments:

1. Refer to Data Assessment Narrative.

CLP DATA ASSESSMENT

Functional Guidelines for Evaluating Organic Analysis

CASE # RFP#4229 SDG # N54554
LAB: Accutest Laboratories
SITE: Cornell Dubilier Electronics Site

The current Functional Guidelines for evaluating organic data have been applied.

All data are valid and acceptable except those analytes which have been qualified with a "J" (estimated), "N" (presumptive evidence for the presence of the material), "U" (non-detects), "R" (unusable), or "JN" (presumptive evidence for the presence of the material at an estimated value). All action is detailed on the attached sheets.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant QC problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Analytical data qualified as "JN" or "R" may not be used to demonstrate compliance with Toxicity Characteristic or Land Ban Regulations.

Reviewer's
Signature:

Judith Luthria Date: 02/09/2004

Verified By:

Adam Long Date: 2/16/2004

CLP DATA ASSESSMENT

Client identification (ID) and laboratory ID numbers:

<u>Client ID No.</u>	<u>Laboratory ID No.</u>	<u>Matrix</u>
CDFF52A	N54554-1	Soil
CDFF49A	N54554-2	Soil
CDFF59A	N54554-3	Soil
CDFF60A	N54554-4	Soil
CDFF45A	N54554-5	Soil
CDFF44A	N54554-6	Soil
CDFF58A1**	N54554-7	Soil
CDFF46A	N54554-8	Soil
CDFF63A	N54554-9	Soil
CDFF53A	N54554-10	Soil
CDFF43A	N54554-11	Soil
CDFF47A	N54554-12	Soil
CDFF58A	N54554-13	Soil
CDFF53A1***	N54554-14	Soil
CDFF50A	N54554-15	Soil
CDFF51A	N54554-16	Soil
CDFF62A	N54554-17	Soil
CDFF61A	N54554-18	Soil
CDFF67C	N54554-19	Soil
CDFF57A	N54554-20	Soil
CDFF67D*	N54554-21	Soil
CDFF67B	N54554-22	Soil
CDFF41A*	N54554-23	Soil
CDFF64A	N54554-24	Soil
CDFF56A	N54554-25	Soil
CDFF48A*	N54554-26	Soil
CDFF54A	N54554-27	Soil
CDFF55A	N54554-28	Soil
CDFF66D	N54554-29	Soil
CDFF66C	N54554-30	Soil
CDFF66B	N54554-31	Soil
CDFF40A1****	N54554-32	Soil

* Samples also collected for MS/MSD.

** Sample CDFF58A1 is the Field Duplicate of Sample CDFF58A

*** Sample CDFF53A1 is the Field Duplicate of Sample CDFF53A

**** Sample CDFF40A1 is the Field Duplicate of Sample CDFF40A

Client identification (ID) and laboratory ID numbers (continued):

<u>Client ID No.</u>	<u>Laboratory ID No.</u>	<u>Matrix</u>
CDFF40A	N54554-33	Soil
CDFF42A	N54554-34	Soil
CDFF33A	N54554-35	Soil
CDFF34A	N54454-36	Soil
CDFF37A	N54554-37	Soil
CDFF36A	N54554-38	Soil
CDFF35A	N54554-39	Soil
CDFF65D	N54554-40	Soil
CDFF39A	N54554-41	Soil
CDFF38A	N54554-42	Soil
CDFF65C	N54554-43	Soil
CDFF65B	N54554-44	Soil

1. HOLDING TIMES:

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimated, "J". The non-detects (sample quantitation limits) will be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

The following analytes in the samples shown were qualified because of holding time:

TCL Data

PCBs - The following data were qualified as estimated "J" or rejected "R" due to exceeding holding time criteria:

<u>Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Extracted</u>	<u>VTSR at Lab</u>	<u>Date Analyzed</u>	<u>Qualifier</u>	<u># Compounds</u>
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Data met QC criteria.

Note: Continuous extraction of water samples must be started within seven (7) days of the date of collection. Soil/Sediment/Solid samples must be extracted within ten (10) days of collection. Extracts must be analyzed within forty (40) days of extraction.

2. BLANK CONTAMINATION:

Quality Assurance (QA) blanks [i.e., method, trip, field or rinse blanks] are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Field and rinse blanks measure cross-contamination of samples during field operations. If the concentration of the analyte is less than 5 times the blank contaminant level (10 times for common contaminants), the analytes are qualified as non-detects, "U". The following analytes in the samples shown were qualified with "U" for these reasons:

A) Method Blank Contamination

PCBs - The following compounds were qualified as non-detected "U" in the associated samples due to method blank contamination:

<u>Compound</u>	<u>Associated Samples</u>
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Data met QC criteria.

B) **Field or Rinse Blank Contamination ("water blanks" or "distilled water blanks" are validated like any other sample)**

PCBs - The following compounds were qualified as non-detected "U" in the associated samples due to rinse blank contamination:

<u>Compound</u>	<u>Associated Samples</u>
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No field blanks were included with these analyses.

3. **MASS SPECTROMETER TUNING:**

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds, and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The tuning standard for volatile organics is bromofluorobenzene (BFB) and for semi-volatiles is decafluorotriphenyl-phosphine (DFTPP).

If the mass calibration is in error or missing, all associated data will be classified as unusable "R". The following samples shown were qualified with "R" because of tuning:

No mass spectrometric determinations were required for these sample analyses.

4. CALIBRATION:

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument is giving satisfactory daily performance.

A) PERCENT RELATIVE STANDARD DEVIATION (%RSD) AND PERCENT DIFFERENCE (%D):

Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentration. Percent D compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be < 30% and %D must be < 25%. A value outside of these QC limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J"; and non-detects are flagged "UJ". If %RSD and/or %D grossly exceed QC criteria, non-detect data may be qualified "R".

For the PESTICIDE/PCB fraction, if %RSD exceeds 20% for all analytes except for the 2 surrogates (which must not exceed 30% RSD), qualify all associated positive results "J" and non-detects "UJ".

The following analytes in the samples shown were qualified for %RSD and %D:

Initial Calibration

PCBs - The following compounds were qualified as estimated "J" or rejected "R" in the associated samples because the linearity criteria or the percent relative standard deviation (%RSD) of the Initial Calibration is > 20% for either one or both GC columns:

<u>Compound</u>	<u>Percent Recovery</u>	<u>Qualifier</u>	<u>Associated Sample(s)</u>
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Data met QC criteria.

4. CALIBRATION (continued):

Continuing Calibration

PCBs - The following data were not qualified as estimated "J" in the associated samples because the percent difference (%D) of the Continuing Calibration is just outside specified QC Limits:

<u>Fraction</u>	<u>Compound</u>	<u>Value exceeding QC Limits</u>	<u>Associated Sample(s)</u>
PCB for "signal #2"	AR1016 peak A	24.2%D	CDFF48A, CDFF38A, CDFF65C, CDFF65B
PCB for "signal #2"	AR1016 peak D	21.2%D	CDFF48A, CDFF38A, CDFF65C, CDFF65B

Note: The method-specified limit of < 15 % D for PCB continuing calibration was exceeded for two of the five quantitation peaks for Aroclor 1016 in one continuing calibration standard on 12/6/2003. This occurred on only one of the two chromatographic columns (i.e., signal #2). No qualifiers are required since any positive results in the four samples, bracketed by this CCV, were quantitated using the other column (signal #1) that was within control limits.

5. SURROGATES/SYSTEM MONITORING COMPOUNDS (SMC):

All samples are spiked with surrogate/SMC compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. If the measured surrogate/SMC concentrations were outside contract specifications, qualifications were applied to the samples and analytes as shown below. The following analytes for the samples shown were qualified because of surrogate/SMC recovery:

PCBs - The following compounds were either qualified as estimated "J" or rejected "R" due to Tetrachloro-m-xylene (TCX) and Decachlorobiphenyl (DCB) surrogate recoveries are both outside specified advisory QC limits:

<u>Surrogate</u>	<u>Recovery</u>	<u>Qualifier</u>	<u>Compounds</u>	<u>Sample(s)</u>
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Data met QC criteria.

6. COMPOUND IDENTIFICATION:

A) PESTICIDE FRACTION:

The retention time of the reported compounds must fall within the calculated retention time windows for the two chromatographic columns and a GC/MS confirmation is required if the concentration exceeds 10 ng/ml in the final sample extract. The percent difference (%D) of the positive results obtained on the two GC columns should be $\leq 25\%$. The following analytes in the samples shown were qualified because of compound identification:

PCBs - The following detected compounds were qualified due to a percent difference (%D) between the primary and confirmation columns $> 25\%$:

<u>Compound</u>	<u>%D</u>	<u>Qualifier</u>	<u>Sample(s)</u>
Aroclor-1254	between 25-50%	"J"	CDFF49A, CDFF44A, CDFF58A1, CDFF63A, CDFF53A, CDFF43A, CDFF47A, CDFF58A, CDFF50A, CDFF62A, CDFF57A, CDFF64A, CDFF48A, CDFF55A, CDFF42A, CDFF33A, CDFF36A, CDFF39A, CDFF65C, CDFF65B
Aroclor-1260	between 25-50%	"J"	CDFF64A, CDFF55A, CDFF38A

Note: During the initial calibration sequence, absolute retention times are determined for all single response pesticides, the surrogates, and at least three major peaks of each multi-component analyte. Windows are centered around the mean absolute retention time for the analyte established during the initial calibration. Analytes are identified when peaks are observed in the retention time window for the compound on both GC columns. Comparison of the sample retention times to the retention time windows established during the initial calibration revealed that no additional pesticide compounds were detected in the associated samples. In addition, no shifts for surrogate compound retention times were noted to occur that might require consideration of compounds outside respective retention time windows.

A) PESTICIDE FRACTION (continued):

PCBs - Due to professional judgement, the lower of two positive values generated by the laboratory from the primary and confirmation column analyses was used to report final results for the following pesticide compounds:

<u>Compound</u>	<u>Primary Column Value</u>	<u>Confirmation Column Value</u>
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Note: The laboratory has consistently reported the higher of the two results from the two GC columns, unless a CCV recovery outlier indicated that one of the values was more appropriate to report. The RPD's between these results indicated acceptable precision, with the exceptions of those listed, and qualified, in the previous section. No further qualification or adjustments in the reported values were deemed necessary.

7. MATRIX SPIKE/SPIKE DUPLICATE, MS/MSD:

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices. The MS/MSD may be used in conjunction with other QC criteria for some additional qualification of the data. The following analytes, for the samples shown, were qualified because of MS/MSD:

The laboratory indicated in the case narrative that samples, CDFF41A (N54554-23), CDFF48A (N54554-26), and CDFF67D (N54554-21) were used as the originals to prepare the duplicate matrix spikes.

PCBs - The following sample data were either qualified as estimated "J" or rejected "R" due to exceeding duplicate spike recovery QC criteria:

<u>Original Sample</u>	<u>Spike Recovery</u>	<u>Qualifier</u>	<u>Compound(s)</u>
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No qualifiers are required based on high matrix spike recoveries for sample CDFF41A. No positive target compound results were reported in the original, unspiked sample. The other two sets of MS/MSD results were acceptable.

Note: The blank QC spike samples prepared undiluted and analyzed along with all three of the duplicate matrix spikes met all recovery and advisory accuracy criteria. In addition, the surrogate recovery results associated with the high matrix spike results were acceptable.

8. OTHER QC DATA OUT OF SPECIFICATION:

PCBs - The following compounds were qualified as estimated "J" in the associated aqueous and/or soil/sediment field duplicate samples because the Relative Percent Difference (RPD) between the sample and field duplicate sample is >50% for aqueous samples, or >100% for soil/sediment samples:

<u>Compound</u>	<u>Matrix</u>	<u>% RPD</u>	<u>Associated Field Duplicate Samples</u>
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Data met QC criteria.

Note: There were three sets of field duplicate pairs (CDFF40A / CDFF40A1, CDFF53A / CDFF53A1, and CDFF58A / CDFF58A1). The first pair listed had no target compounds detected and the other two pairs had Aroclor 1254 and Aroclor 1260 detected well within the RPD criteria.

The following soil/sediment/solid sample data (other than TCLP data) were either qualified as estimated "J" (% solids between 10-50%) or rejected "R" (% solids < 10%) because the sample contains more than 50% water:

<u>Fraction</u>	<u>Percent Solids</u>	<u>Qualifier</u>	<u># Compounds</u>	<u>Sample(s)</u>
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All %solids were > 50%.

The following compounds were qualified as estimated "J" in the indicated samples because the on-column amount of these compounds exceeded the instrument's analytical range as defined by the highest concentration level of the Initial Calibration Sequence:

<u>Fraction</u>	<u>Sample(s)</u>	<u>Compound(s)</u>
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No qualification required; laboratory reported from dilution analyses when necessary.

9. SYSTEM PERFORMANCE AND OVERALL ASSESSMENT:

Due to professional judgement, the following compounds were not transferred from the indicated dilution sample analyses to the undiluted sample analyses because the reported values of these compounds are either diluted out in the associated dilution sample analyses or are qualified as non-detected "U" due to blank contamination QC criteria:

<u>Fraction</u>	<u>Compound</u>	<u>Dilution Sample(s)</u>	<u>Dilution Factor</u>
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The analysis report forms (Form 1s), provided by the laboratory, already show only the appropriate and specific compound results, as required, from the dilution analyses. Footnotes were also included to indicate which results were reported from a second, dilution run.

Due to professional judgement, the following positive data were rejected "R" due to possible carryover from a previous sample analysis that contained the compound(s) at high concentration(s):

<u>Fraction</u>	<u>Sample Compound</u>	<u>Sample Compound Concentration</u>	<u>Previous Sample Compound Concentration</u>
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No data qualification.

10. CONTRACT PROBLEMS____NON-COMPLIANCE:

None.

11. This package contain re-extraction, re-analysis or dilution results. Upon reviewing the QA results, the following Form I(s) are identified to be used:

<u>PCB Fraction:</u>	<u>Use Sample(s)</u>	<u>Do Not Use Sample(s)</u>
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Dilution results were already incorporated into a single version of the Form 1.

Organics Results
Work Tables
and
Qualified Form 1's

OTHER ANALYTES WORK TABLE

PROJECT: CORNELL DUBILIER ELECTRONICS SITE

SAMPLING DATE: DECEMBER 2, 2003

SAMPLE #/CONCENTRATION (µg/Kg)

PCBs Low Concentration	Method Detection Limit	Soil CDFF52A N54554-1	Soil CDFF49A N54554-2	Soil CDFF59A N54554-3	Soil CDFF60A N54554-4
Percent Moisture		16.7	20.7	25.1	23
Dilution Factor		1	1	1	1
Aroclor-1016	2.4	U	U	U	U
Aroclor-1221	5.1	U	U	U	U
Aroclor-1232	3.8	U	U	U	U
Aroclor-1242	2.9	U	U	U	U
Aroclor-1248	2.5	U	U	U	U
Aroclor-1254	1.6	336	543 J	357	1540 D
Aroclor-1260	2.9	98.7	193	115	366
	dilution factor for cmpds. with "D" flag				2

U - non-detected compound

B - detected in the corresponding method blank

J - estimated value

JN - presumptive evidence of a compound
at an estimated value

R - rejected compound

D-result from dilution analysis

OTHER ANALYTES WORK TABLE

PROJECT: CORNELL DUBLIER ELECTRONICS SITE

SAMPLING DATE: DECEMBER 2, 2003

SAMPLE #/CONCENTRATION (µg/Kg)

PCBs Low Concentration	Method Detection Limit	Soil CDFF45A N54554-5	Soil CDFF44A N54554-6	Soil CDFF58A1 N54554-7	Soil CDFF46A N54554-8
Percent Moisture		21	23.1	24.4	25.8
Dilution Factor		1	1	1	1
Aroclor-1016	2.4	U	U	U	U
Aroclor-1221	5.1	U	U	U	U
Aroclor-1232	3.8	U	U	U	U
Aroclor-1242	2.9	U	U	U	U
Aroclor-1248	2.5	U	U	U	U
Aroclor-1254	1.6	224	325 J	204 J	1330 D
Aroclor-1260	2.9	86.9	141	73	457
	dilution factor for cmpds. with "D" flag				2

U - non-detected compound

B - detected in the corresponding method blank

J - estimated value

JN - presumptive evidence of a compound
at an estimated value

R - rejected compound

D-result from dilution analysis

OTHER ANALYTES WORK TABLE

PROJECT: CORNELL DUBILIER ELECTRONICS SITE

SAMPLING DATE: DECEMBER 2, 2003

SAMPLE #/CONCENTRATION (µg/Kg)

PCBs Low Concentration	Method Detection Limit	Soil CDFF63A N54554-9	Soil CDFF53A N54554-10	Soil CDFF43A N54554-11	Soil CDFF47A N54554-12
Percent Moisture		24.1	22	25.3	21.8
Dilution Factor		1	1	1	1
Aroclor-1016	2.4	U	U	U	U
Aroclor-1221	5.1	U	U	U	U
Aroclor-1232	3.8	U	U	U	U
Aroclor-1242	2.9	U	U	U	U
Aroclor-1248	2.5	U	U	U	U
Aroclor-1254	1.6	140 J	285 J	303 J	88.6 J
Aroclor-1260	2.9	62	109	164	41.6

U - non-detected compound

B - detected in the corresponding method blank

J - estimated value

JN - presumptive evidence of a compound
at an estimated value

R - rejected compound

D-result from dilution analysis

OTHER ANALYTES WORK TABLE

PROJECT: CORNELL DUBILIER ELECTRONICS SITE

SAMPLING DATE: DECEMBER 2, 2003

SAMPLE #/CONCENTRATION (µg/Kg)

PCBs Low Concentration	Method Detection Limit	Soil CDDF58A N54554-13	Soil CDDF53A1 N54554-14	Soil CDDF50A N54554-15	Soil CDDF51A N54554-16
Percent Moisture		25	20.5	22.6	22.4
Dilution Factor		1	1	1	1
Aroclor-1016	2.4	U	U	U	U
Aroclor-1221	5.1	U	U	U	U
Aroclor-1232	3.8	U	U	U	U
Aroclor-1242	2.9	U	U	U	U
Aroclor-1248	2.5	U	U	U	U
Aroclor-1254	1.6	146 J	272	324 J	797
Aroclor-1260	2.9	54	97.7	124	240

U - non-detected compound

B - detected in the corresponding method blank

J - estimated value

JN - presumptive evidence of a compound
at an estimated value

R - rejected compound

D-result from dilution analysis

OTHER ANALYTES WORK TABLE

PROJECT: CORNELL DUBILIER ELECTRONICS SITE

SAMPLING DATE: DECEMBER 2, 2003

SAMPLE #/CONCENTRATION (µg/Kg)

PCBs Low Concentration	Method Detection Limit	Soil CDFF62A N54554-17	Soil CDFF61A N54554-18	Soil CDFF67C N54554-19	Soil CDFF57A N54554-20
Percent Moisture		25.5	20.4	14.9	26.3
Dilution Factor		1	1	1	1
Aroclor-1016	2.4	U	U	U	U
Aroclor-1221	5.1	U	U	U	U
Aroclor-1232	3.8	U	U	U	U
Aroclor-1242	2.9	U	U	U	U
Aroclor-1248	2.5	U	U	U	U
Aroclor-1254	1.6	346 J	323	322	283 J
Aroclor-1260	2.9	115	136	95	124

U - non-detected compound

B - detected in the corresponding method blank

J - estimated value

JN - presumptive evidence of a compound
at an estimated value

R - rejected compound

D-result from dilution analysis

OTHER ANALYTES WORK TABLE

PROJECT: CORNELL DUBILIER ELECTRONICS SITE

SAMPLING DATE: DECEMBER 2, 2003

SAMPLE #/CONCENTRATION (µg/Kg)

PCBs Low Concentration	Method Detection Limit	Soil CDFF67D N54554-21	Soil CDFF67B N54554-22	Soil CDFF41A N54554-23	Soil CDFF64A N54554-24
Percent Moisture		20.2	12.6	21.6	23
Dilution Factor		1	1	1	1
Aroclor-1016	2.4	U	U	U	U
Aroclor-1221	5.1	U	U	U	U
Aroclor-1232	3.8	U	U	U	U
Aroclor-1242	2.9	U	U	U	U
Aroclor-1248	2.5	U	U	U	U
Aroclor-1254	1.6	214	336	U	198 J
Aroclor-1260	2.9	57	109	U	91.3 J

U - non-detected compound

B - detected in the corresponding method blank

J - estimated value

JN - presumptive evidence of a compound
at an estimated value

R - rejected compound

D-result from dilution analysis

OTHER ANALYTES WORK TABLE

PROJECT: CORNELL DUBILIER ELECTRONICS SITE

SAMPLING DATE: DECEMBER 2, 2003

SAMPLE #/CONCENTRATION (µg/Kg)

PCBs Low Concentration	Method Detection Limit	Soil CDDFF56A N54554-25	Soil CDDFF48A N54554-26	Soil CDDFF54A N54554-27	Soil CDDFF55A N54554-28
Percent Moisture		22.7	23.6	23.8	24.8
Dilution Factor		1	1	1	1
Aroclor-1016	2.4	U	U	U	U
Aroclor-1221	5.1	U	U	U	U
Aroclor-1232	3.8	U	U	U	U
Aroclor-1242	2.9	U	U	U	U
Aroclor-1248	2.5	U	U	U	U
Aroclor-1254	1.6	251	75.3 J	267	180 J
Aroclor-1260	2.9	134	31.3	147	94.2 J

U - non-detected compound

B - detected in the corresponding method blank

J - estimated value

JN - presumptive evidence of a compound
at an estimated value

R - rejected compound

D-result from dilution analysis

OTHER ANALYTES WORK TABLE

PROJECT: CORNELL DUBILIER ELECTRONICS SITE

SAMPLING DATE: DECEMBER 2, 2003

SAMPLE #/CONCENTRATION (µg/Kg)

PCBs Low Concentration	Method Detection Limit	Soil CDFF66D N54554-29	Soil CDFF66C N54554-30	Soil CDFF66B N54554-31	Soil CDFF40A1 N54554-32
Percent Moisture		19.2	16.8	18.1	20.9
Dilution Factor		1	1	1	1
Aroclor-1016	2.4	U	U	U	U
Aroclor-1221	5.1	U	U	U	U
Aroclor-1232	3.8	U	U	U	U
Aroclor-1242	2.9	U	U	U	U
Aroclor-1248	2.5	U	U	U	U
Aroclor-1254	1.6	124	454	1860 D	U
Aroclor-1260	2.9	41.7	165	625	U
	dilution factor for cmpds. with "D" flag			4	

U - non-detected compound

B - detected in the corresponding method blank

J - estimated value

JN - presumptive evidence of a compound
at an estimated value

R - rejected compound

D-result from dilution analysis

OTHER ANALYTES WORK TABLE

PROJECT: CORNELL DUBILIER ELECTRONICS SITE

SAMPLING DATE: DECEMBER 2, 2003

SAMPLE #/CONCENTRATION (µg/Kg)

PCBs Low Concentration	Method Detection Limit	Soil CDFF40A N54554-33	Soil CDFF42A N54554-34	Soil CDFF33A N54554-35	Soil CDFF34A N54554-36
Percent Moisture		22.7	23.1	20.2	22.9
Dilution Factor		1	1	1	1
Aroclor-1016	2.4	U	U	U	U
Aroclor-1221	5.1	U	U	U	U
Aroclor-1232	3.8	U	U	U	U
Aroclor-1242	2.9	U	U	U	U
Aroclor-1248	2.5	U	U	U	U
Aroclor-1254	1.6	U	457 J	264 J	485
Aroclor-1260	2.9	U	138	96.3	180

U - non-detected compound

B - detected in the corresponding method blank

J - estimated value

JN - presumptive evidence of a compound
at an estimated value

R - rejected compound

D-result from dilution analysis

OTHER ANALYTES WORK TABLE

PROJECT: CORNELL DUBILIER ELECTRONICS SITE

SAMPLING DATE: DECEMBER 2, 2003

SAMPLE #/CONCENTRATION (µg/Kg)

PCBs	Method	Soil	Soil	Soil	Soil
Low Concentration	Detection	CDF37A	CDF36A	CDF35A	CDF65D
Percent Moisture	Limit	N54554-37	N54554-38	N54554-39	N54554-40
Dilution Factor		24.1	29.4	25.1	13.9
		1	1	1	1
Aroclor-1016	2.4	U	U	U	U
Aroclor-1221	5.1	U	U	U	U
Aroclor-1232	3.8	U	U	U	U
Aroclor-1242	2.9	U	U	U	U
Aroclor-1248	2.5	U	U	U	U
Aroclor-1254	1.6	664	468 J	652	112
Aroclor-1260	2.9	217	142	209	U

U - non-detected compound

B - detected in the corresponding method blank

J - estimated value

JN - presumptive evidence of a compound
at an estimated value

R - rejected compound

D-result from dilution analysis

OTHER ANALYTES WORK TABLE

PROJECT: CORNELL DUBILIER ELECTRONICS SITE

SAMPLING DATE: DECEMBER 2, 2003

SAMPLE #/CONCENTRATION (µg/Kg)

PCBs	Method	Soil	Soil	Soil	Soil
Low Concentration	Detection	CDF639A	CDF638A	CDF65C	CDF65B
Percent Moisture	Limit	N54554-41	N54554-42	N54554-43	N54554-44
Dilution Factor		21.1	29.4	17.1	17.8
		1	1	1	1
Aroclor-1016	2.4	U	U	U	U
Aroclor-1221	5.1	U	U	U	U
Aroclor-1232	3.8	U	U	U	U
Aroclor-1242	2.9	U	U	U	U
Aroclor-1248	2.5	U	U	U	U
Aroclor-1254	1.6	296 J	884	142 J	293 J
Aroclor-1260	2.9	182	171 J	44.6	79.2

U - non-detected compound

B - detected in the corresponding method blank

J - estimated value

JN - presumptive evidence of a compound
at an estimated value

R - rejected compound

D-result from dilution analysis

**Chain of Custody Records
and
Laboratory Case Narrative**

SDG Narrative
Accutest Laboratories
Job #N54554

(ORGANIC FRACTION)

The samples in this SDG were received at Accutest Laboratories for analysis by SW846 8082 for PCB methodology.

All samples were analyzed within holding times.

GC Semi-volatile Fraction:

- Instrument Model: HP5890/dual ECD
- Column: DB-5 30m x 0.32mm x 0.25um/DB-1701 30m x 0.32mm x 0.25um
- There are no anomalies to report.
- Samples N54554-4, -8, and -31 were diluted further because certain compounds in the original runs were outside of the calibration range.
- Samples N54554-26 (OP15539), N54554-23 (OP15535) and N54554-21 (OP15534) were used as the matrix spike (MS) and matrix spike duplicates (MSD).
- In the OP15535-MS/MSD, recoveries for Aroclor 1016 and Aroclor 1260 are outside control limits due to possible matrix interference. Refer to batch associated blank spike.

(INORGANIC FRACTION)

On the general chemistry fraction:

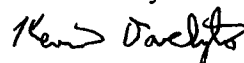
- The samples were analyzed for general chemistry parameters following the methodologies in this data package.
- All samples were analyzed within holding time.
- Matrix spike (MS) and duplicates (DUP) are not analyzed by this procedure.

Qualifiers possibly reported on the target compound list for all fractions:

- “ND” indicating compound was analyzed but not detected,
- “J” indicating estimated value where the concentration is less than the reporting limit,
- “E” indicating estimated value where the concentration exceeds calibration range, and
- “B” indicating compound is found in associated method blank as well as in the sample.

I certify that that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package and in the computer-readable data submitted on diskette, has been authorized by the laboratory manager or his designee, as verified by the following signature.

Kevin Dovedytis



Report Generation Technician

CHAIN OF CUSTODY RECORD



Removal Support Team

EPA Contract 68-W-00-113

Phone: (732) 225-6116 Fax: (732) 225-7037

N54554 revised

1. Surface	1. HCL
2. Ground water	2. HNO ₃
3. Leachate	3. Na ₂ SO ₄
4. Rinseate	4. H ₂ SO ₄
5. Soil/Sediment	5 Other (specify)
6. Oil	6. Ice Only
7. Waste	7. Not preserved
8. Other (Specify)	*See Comments

Send verbal and written results to:

Weston Solutions, Inc.

Suite 201, 1090 King Georges Post Road, Edison, NJ 08837-3703

Attention: Smita Sumbaly, RST Analytical Coordinator

Sample Number	Initials/Comments	Time	Date	Time	Date	VOL	SW	FEF	FCW	TEL	CE	ACE	CCR	READ	OTHER
CDFFS2A	1426/351	S	L	G	6				X						
CDFF49H	1347								X						
CDFF39H	1347								X						
CDFF60A	1254								X						
CDFF48A	1249								X						
CDFF49H	1257								X						
CDFF48A	1405								X						
CDFF46A	1243								X						
CDFF63A	1408								X						
CDFF53A	1344								X						
CDFF43A	1236								X						

Comments:

2.4°

Person Assuming Responsibility for Samples:

Time/Date:

Sample Number: A11	Relinquished by: Dem. Man	Time: 1005	Date: 12/5/03	Received by: [Signature]	Reason for Change of Custody:
Sample Number:	Relinquished by:	Time:	Date:	Received by:	Reason for Change of Custody:
Sample Number:	Relinquished by:	Time:	Date:	Received by:	Reason for Change of Custody:

Weston Solutions, Inc.

FEDERAL PROGRAMS DIVISION

In Association with Scientific and Environmental Associates, Inc., Resource Applications, Inc., and Innovative Technological Solutions, Inc.

CHAIN OF CUSTODY RECORD



Removal Support Team

EPA Contract 68-W-00-113

Phone: (732) 225-6116 Fax: (732) 225-7037

N54554 reverse

1. Surface	1. HCL
2. Ground water	2. HNO ₃
3. Leachate	3. Na ₂ SO ₄
4. Rinse	4. H ₂ SO ₄
5. Soil/Sediment	5. Other (specify)
6. Oil	6. Ice Only
7. Waste	7. Not preserved
8. Other	*See Comments
(Specify)	

Send verbal and written results to:

Weston Solutions, Inc.

Suite 201, 1090 King Georges Post Road, Edison, NJ 08837-3703

Attention: Smita Sumbaty, RST Analytical Coordinator

Sample Number	Sample Collection Method/Type	Sample Date	Time	Location	Sample Point	VOL	GR	TEST	FOR	TAL	CH	SH	CCR	ALAC	OTHER
CDFF47A	12/3 1430	5	L	G	6				X						
CDFF58A	1407								X						
CDFF53A	1341								X						
CDFF50A	1354								X						
CDFF51A	1359								X						
CDFF62A	1402								X						
CDFF61A	1353								X						
CDFF67C	1456								X						
CDFF57A	1411								X						
*CDFF61D	1501								X						
CDFF61B	1452								X						

Comments:

*USE for MS/MSD

Person Assuming Responsibility for Samples:

Time/Date:

Sample Number:	Relinquished by:	Time:	Date:	Received by:	Reason for Change of Custody:
111	Dean Moran	1005	12/3/03	[Signature]	
Sample Number:	Relinquished by:	Time:	Date:	Received by:	Reason for Change of Custody:
Sample Number:	Relinquished by:	Time:	Date:	Received by:	Reason for Change of Custody:

Weston Solutions, Inc.

FEDERAL PROGRAMS DIVISION

In Association with Scientific and Environmental Associates, Inc., Resource Applications, Inc., and Innovative Technological Solutions, Inc.

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CHAIN OF CUSTODY RECORD



Removal Support Team

EPA Contract 68-W-00-113

Phone: (732) 225-6116 Fax: (732) 225-7037

N54554 revised

1. Surface	1. HCL
2. Ground water	2. HNO ₃
3. Leachate	3. Na ₂ SO ₄
4. Rinseate	4. H ₂ SO ₄
5. Soil/Sediment	5 Other (specify)
6. Oil	6. Ice Only
7. Waste	N. Not preserved
8. Other (Specify)	*See Comments

Send verbal and written results to:

Weston Solutions, Inc.

Suite 201, 1090 King Georges Post Road, Edison, NJ 08837-3703

Attention: Smita Sumbaly, RST Analytical Coordinator

Sample Number	Sample Date/Time	Sample ID	Site	Lab	Sample	VOA	OW	POC	PCB	PAH	CH	WH	COB	SPAC	OTHER
*CDEF41H	12/2/03	1222	5	L	G	6			X						
CDEF64A		1413							X						
CDEF56A		1416							X						
*CDEF48A		1424							X						
CDEF34A		1419							X						
CDEF55A		1428							X						
CDEF66D		1444							X						
CDEF66K		1440							X						
CDEF66B		1437							X						
CDEF40M		1217							X						
CDEF40A		1215							X						
Comments: *Should be sample # CDEF40A (D. Mann) * Use for MS/MSD															

Person Assuming Responsibility for Samples:

Time/Date:

Sample Number:	Relinquished by:	Time:	Date:	Received by:	Reason for Change of Custody:
All	Deen Mann	1005	12/5/13		
Sample Number:	Relinquished by:	Time:	Date:	Received by:	Reason for Change of Custody:
Sample Number:	Relinquished by:	Time:	Date:	Received by:	Reason for Change of Custody:

Weston Solutions, Inc.

FEDERAL PROGRAMS DIVISION

In Association with Scientific and Environmental Associates, Inc., Resource Applications, Inc., and Innovative Technological Solutions, Inc.

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CHAIN OF CUSTODY RECORD



Removal Support Team

EPA Contract 68-W-00-113

Phone: (732) 225-6116 Fax: (732) 225-7037

N54554 new

4229

1. Surface	1. HCL
2. Ground water	2. HNO ₃
3. Leachate	3. Na ₂ SO ₄
4. Filtrate	4. H ₂ SO ₄
5. Soil/Sediment	5. Other (specify)
6. Oil	6. Ice Only
7. Waste	7. Not preserved
8. Other (Specify)	*See Comments

Send verbal and written results to:

Weston Solutions, Inc.

Suite 201, 1090 King Georges Post Road, Edison, NJ 08837-3703

Attention: Smita Sumbaly, RST Analytical Coordinator

Sample Number	Sample Collection Date/Time	Sample Matrix	Chemical Analyte	Sample Type	Sample Volume	VOA	SWA	PEST	PCB	TAL	CR	ACH	DCE	REDO	OTHER
CDEF42A	12/2/03 12:30	5	L	G	G				X						
CDEF33A	11:06								X						
CDEF34A	11:00								X						
CDEF37A	11:35								X						
CDEF36A	11:23								X						
CDEF35A	11:14								X						
CDEF65D	15:23								X						
CDEF39A	12:00								X						
CDEF38A	11:53								X						
CDEF65C	15:18								X						
CDEF65D	15:10								X						

Comments:

Person Assuming Responsibility for Samples:

Time/Date:

Sample Number: A11	Relinquished by: Dean Mason	Time: 1005	Date: 12/5/03	Received by:	Reason for Change of Custody:
Sample Number:	Relinquished by:	Time:	Date:	Received by:	Reason for Change of Custody:
Sample Number:	Relinquished by:	Time:	Date:	Received by:	Reason for Change of Custody:

Weston Solutions, Inc.
FEDERAL PROGRAMS DIVISION

In Association with Scientific and Environmental Associates, Inc., Resource Applications, Inc., and Innovative Technological Solutions, Inc.

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Report of Analysis

Client Sample ID:	CDFF52A	Date Sampled:	12/02/03
Lab Sample ID:	N54554-1	Date Received:	12/03/03
Matrix:	SO - Soil	Percent Solids:	83.3
Method:	SW846 8082 SW846 3550B		
Project:	RFP# 4229		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47967.D	1	12/09/03	OYA	12/03/03	OP15534	GEF2410
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	20	2.8	ug/kg	
11104-28-2	Aroclor 1221	ND	20	6.0	ug/kg	
11141-16-5	Aroclor 1232	ND	20	4.5	ug/kg	
53469-21-9	Aroclor 1242	ND	20	3.4	ug/kg	
12672-29-6	Aroclor 1248	ND	20	3.0	ug/kg	
11097-69-1	Aroclor 1254	336	20	1.9	ug/kg	
11096-82-5	Aroclor 1260	98.7	20	3.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	87%		26-142%
877-09-8	Tetrachloro-m-xylene	90%		26-142%
2051-24-3	Decachlorobiphenyl	95%		32-153%
2051-24-3	Decachlorobiphenyl	91%		32-153%

QA
02/06/04

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDF52A
Lab Sample ID: N54554-1
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 83.3

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	83.3		%	1	12/04/03	TC	EPA 160.3 M

QA
02/06/04

RL = Reporting Limit

==

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Report of Analysis

Client Sample ID:	CDFF49A	Date Sampled:	12/02/03
Lab Sample ID:	N54554-2	Date Received:	12/03/03
Matrix:	SO - Soil	Percent Solids:	79.3
Method:	SW846 8082 SW846 3550B		
Project:	RFP# 4229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47968.D	1	12/09/03	OYA	12/03/03	OP15534	GEF2410
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.0	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.3	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.8	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.6	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.2	ug/kg	
11097-69-1	Aroclor 1254	543	21	2.0	ug/kg	J
11096-82-5	Aroclor 1260	193	21	3.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	85%		26-142%
877-09-8	Tetrachloro-m-xylene	90%		26-142%
2051-24-3	Decachlorobiphenyl	94%		32-153%
2051-24-3	Decachlorobiphenyl	95%		32-153%

02/06/04

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDFF49A
Lab Sample ID: N54554-2
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 79.3

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	79.3		%	1	12/04/03	TC	EPA 160.3 M

02/06/04

Report of Analysis

Client Sample ID: CDFF59A
Lab Sample ID: N54554-3
Matrix: SO - Soil
Method: SW846 8082 SW846 3550B
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 74.9

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47969.D	1	12/09/03	OYA	12/03/03	OP15534	GEF2410
Run #2							

	Initial Weight	Final Volume
Run #1	30.6 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	22	3.1	ug/kg	
11104-28-2	Aroclor 1221	ND	22	6.6	ug/kg	
11141-16-5	Aroclor 1232	ND	22	5.0	ug/kg	
53469-21-9	Aroclor 1242	ND	22	3.8	ug/kg	
12672-29-6	Aroclor 1248	ND	22	3.3	ug/kg	
11097-69-1	Aroclor 1254	357	22	2.1	ug/kg	
11096-82-5	Aroclor 1260	115	22	3.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	82%		26-142%
877-09-8	Tetrachloro-m-xylene	86%		26-142%
2051-24-3	Decachlorobiphenyl	94%		32-153%
2051-24-3	Decachlorobiphenyl	95%		32-153%

02/06/04
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ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDFF59A
Lab Sample ID: N54554-3
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 74.9

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	74.9		%	1	12/04/03	TC	EPA 160.3 M

QA
02/06/04

Report of Analysis

Client Sample ID: CDF60A
Lab Sample ID: N54554-4
Matrix: SO - Soil
Method: SW846 8082 SW846 3550B
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 77.0

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47970.D	1	12/09/03	OYA	12/03/03	OP15534	GEF2410
Run #2	EF47986.D	2	12/10/03	OYA	12/03/03	OP15534	GEF2410

Run #	Initial Weight	Final Volume
Run #1	30.1 g	10.0 ml
Run #2	30.1 g	10.0 ml

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	22	3.1	ug/kg	
11104-28-2	Aroclor 1221	ND	22	6.6	ug/kg	
11141-16-5	Aroclor 1232	ND	22	4.9	ug/kg	
53469-21-9	Aroclor 1242	ND	22	3.7	ug/kg	
12672-29-6	Aroclor 1248	ND	22	3.3	ug/kg	
11097-69-1	Aroclor 1254	1540 ^a	43	4.2	ug/kg	①
11096-82-5	Aroclor 1260	366	22	3.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	83%	86%	26-142%
877-09-8	Tetrachloro-m-xylene	88%	88%	26-142%
2051-24-3	Decachlorobiphenyl	97%	116%	32-153%
2051-24-3	Decachlorobiphenyl	101%	109%	32-153%

(a) Result is from Run# 2

QA
02/06/04

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDFF60A
Lab Sample ID: N54554-4
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 77.0

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	77		%	1	12/04/03	TC	EPA 160.3 M

OK
02/06/04

Report of Analysis

Client Sample ID:	CDF45A	Date Sampled:	12/02/03
Lab Sample ID:	N54554-5	Date Received:	12/03/03
Matrix:	SO - Soil	Percent Solids:	79.0
Method:	SW846 8082 SW846 3550B		
Project:	RFP# 4229		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47971.D	1	12/09/03	OYA	12/03/03	OP15534	GEF2410
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.0	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.4	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.8	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.6	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.2	ug/kg	
11097-69-1	Aroclor 1254	224	21	2.1	ug/kg	
11096-82-5	Aroclor 1260	86.9	21	3.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	83%		26-142%
877-09-8	Tetrachloro-m-xylene	84%		26-142%
2051-24-3	Decachlorobiphenyl	88%		32-153%
2051-24-3	Decachlorobiphenyl	98%		32-153%

02/06/04

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDFF45A

Lab Sample ID: N54554-5

Matrix: SO - Soil

Project: RFP# 4229

Date Sampled: 12/02/03

Date Received: 12/03/03

Percent Solids: 79.0

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	79		%	1	12/04/03	TC	EPA 160.3 M

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CDF44A	Date Sampled:	12/02/03
Lab Sample ID:	N54554-6	Date Received:	12/03/03
Matrix:	SO - Soil	Percent Solids:	76.9
Method:	SW846 8082 SW846 3550B		
Project:	RFP# 4229		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47974.D	1	12/10/03	OYA	12/03/03	OP15534	GEF2410
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.6 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.0	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.5	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.8	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.7	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.2	ug/kg	
11097-69-1	Aroclor 1254	325	21	2.1	ug/kg	J
11096-82-5	Aroclor 1260	141	21	3.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	85%		26-142%
877-09-8	Tetrachloro-m-xylene	87%		26-142%
2051-24-3	Decachlorobiphenyl	100%		32-153%
2051-24-3	Decachlorobiphenyl	98%		32-153%

OK
02/06/04

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDF44A

Lab Sample ID: N54554-6

Matrix: SO - Soil

Project: RFP# 4229

Date Sampled: 12/02/03

Date Received: 12/03/03

Percent Solids: 76.9

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	76.9		%	1	12/04/03	TC	EPA 160.3 M

02/06/04

RL = Reporting Limit

Report of Analysis

Client Sample ID: CDF58A1

Lab Sample ID: N54554-7

Matrix: SO - Soil

Method: SW846 8082 SW846 3550B

Project: RFP# 4229

Date Sampled: 12/02/03

Date Received: 12/03/03

Percent Solids: 75.6

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47975.D	1	12/10/03	OYA	12/03/03	OP15534	GEF2410
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	22	3.2	ug/kg	
11104-28-2	Aroclor 1221	ND	22	6.7	ug/kg	
11141-16-5	Aroclor 1232	ND	22	5.0	ug/kg	
53469-21-9	Aroclor 1242	ND	22	3.8	ug/kg	
12672-29-6	Aroclor 1248	ND	22	3.3	ug/kg	
11097-69-1	Aroclor 1254	204	22	2.2	ug/kg	J
11096-82-5	Aroclor 1260	73.0	22	3.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	87%		26-142%
877-09-8	Tetrachloro-m-xylene	89%		26-142%
2051-24-3	Decachlorobiphenyl	101%		32-153%
2051-24-3	Decachlorobiphenyl	100%		32-153%

02/06/04

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDFF58A1

Lab Sample ID: N54554-7

Matrix: SO - Soil

Project: RFP# 4229

Date Sampled: 12/02/03

Date Received: 12/03/03

Percent Solids: 75.6

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	75.6		%	1	12/04/03	TC	EPA 160.3 M

02/06/04

Report of Analysis

Client Sample ID:	CDF46A	Date Sampled:	12/02/03
Lab Sample ID:	N54554-8	Date Received:	12/03/03
Matrix:	SO - Soil	Percent Solids:	74.2
Method:	SW846 8082 SW846 3550B		
Project:	RFP# 4229		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47976.D	1	12/10/03	OYA	12/03/03	OP15534	GEF2410
Run #2	EF47987.D	2	12/10/03	OYA	12/03/03	OP15534	GEF2410

Run #	Initial Weight	Final Volume
Run #1	30.7 g	10.0 ml
Run #2	30.7 g	10.0 ml

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	22	3.1	ug/kg	
11104-28-2	Aroclor 1221	ND	22	6.7	ug/kg	
11141-16-5	Aroclor 1232	ND	22	5.0	ug/kg	
53469-21-9	Aroclor 1242	ND	22	3.8	ug/kg	
12672-29-6	Aroclor 1248	ND	22	3.3	ug/kg	
11097-69-1	Aroclor 1254	1330 ^a	44	4.3	ug/kg	
11096-82-5	Aroclor 1260	457	22	3.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	81%	83%	26-142%
877-09-8	Tetrachloro-m-xylene	88%	92%	26-142%
2051-24-3	Decachlorobiphenyl	92%	108%	32-153%
2051-24-3	Decachlorobiphenyl	83%	99%	32-153%

(a) Result is from Run# 2

02/06/04

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDFF46A

Lab Sample ID: N54554-8

Matrix: SO - Soil

Project: RFP# 4229

Date Sampled: 12/02/03

Date Received: 12/03/03

Percent Solids: 74.2

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	74.2		%	1	12/04/03	TC	EPA 160.3 M

02/06/04

Report of Analysis

Client Sample ID: CDFF63A		Date Sampled: 12/02/03	
Lab Sample ID: N54554-9		Date Received: 12/03/03	
Matrix: SO - Soil		Percent Solids: 75.9	
Method: SW846 8082 SW846 3550B			
Project: RFP# 4229			

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47988.D	1	12/10/03	OYA	12/03/03	OP15534	GEF2410
Run #2							

	Initial Weight	Final Volume
Run #1	30.8 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.1	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.5	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.9	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.7	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.2	ug/kg	
11097-69-1	Aroclor 1254	140	21	2.1	ug/kg	J
11096-82-5	Aroclor 1260	62.0	21	3.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	85%		26-142%
877-09-8	Tetrachloro-m-xylene	87%		26-142%
2051-24-3	Decachlorobiphenyl	101%		32-153%
2051-24-3	Decachlorobiphenyl	96%		32-153%

02/06/04

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDFF63A
Lab Sample ID: N54554-9
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 75.9

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	75.9		%	1	12/04/03	TC	EPA 160.3 M

02/06/04

Report of Analysis

Client Sample ID: CDFF53A
Lab Sample ID: N54554-10
Matrix: SO - Soil
Method: SW846 8082 SW846 3550B
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 78.0

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47989.D	1	12/10/03	OYA	12/03/03	OP15534	GEF2410
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.1	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.5	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.9	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.7	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.2	ug/kg	
11097-69-1	Aroclor 1254	285	21	2.1	ug/kg	J
11096-82-5	Aroclor 1260	109	21	3.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	80%		26-142%
877-09-8	Tetrachloro-m-xylene	88%		26-142%
2051-24-3	Decachlorobiphenyl	92%		32-153%
2051-24-3	Decachlorobiphenyl	92%		32-153%

02/06/04

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDFF53A
Lab Sample ID: N54554-10
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 78.0

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	78		%	1	12/04/03	TC	EPA 160.3 M

Report of Analysis

Client Sample ID: CDFF43A
Lab Sample ID: N54554-11
Matrix: SO - Soil
Method: SW846 8082 SW846 3550B
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 74.7

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47990.D	1	12/10/03	OYA	12/03/03	OP15534	GEF2410
Run #2							

	Initial Weight	Final Volume
Run #1	30.6 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	22	3.1	ug/kg	
11104-28-2	Aroclor 1221	ND	22	6.6	ug/kg	
11141-16-5	Aroclor 1232	ND	22	5.0	ug/kg	
53469-21-9	Aroclor 1242	ND	22	3.8	ug/kg	
12672-29-6	Aroclor 1248	ND	22	3.3	ug/kg	
11097-69-1	Aroclor 1254	303	22	2.1	ug/kg	
11096-82-5	Aroclor 1260	164	22	3.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	66%		26-142%
877-09-8	Tetrachloro-m-xylene	81%		26-142%
2051-24-3	Decachlorobiphenyl	85%		32-153%
2051-24-3	Decachlorobiphenyl	84%		32-153%

Handwritten: 02/06/04

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: CDFF43A
Lab Sample ID: N54554-11
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 74.7

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	74.7		%	1	12/04/03	TC	EPA 160.3 M

02/06/04

RL = Reporting Limit

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Report of Analysis

Client Sample ID: CDFF47A
Lab Sample ID: N54554-12
Matrix: SO - Soil
Method: SW846 8082 SW846 3550B
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 78.2

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF48063.D	1	12/12/03	OYA	12/03/03	OP15534	GEF2413
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.1	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.5	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.9	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.7	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.2	ug/kg	
11097-69-1	Aroclor 1254	88.6	21	2.1	ug/kg	J
11096-82-5	Aroclor 1260	41.6	21	3.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	83%		26-142%
877-09-8	Tetrachloro-m-xylene	80%		26-142%
2051-24-3	Decachlorobiphenyl	98%		32-153%
2051-24-3	Decachlorobiphenyl	94%		32-153%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

02/06/04

Report of Analysis

Client Sample ID: CDFF47A
Lab Sample ID: N54554-12
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 78.2

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	78.2		%	1	12/04/03	TC	EPA 160.3 M

OK
02/06/04

RL = Reporting Limit

Report of Analysis

Client Sample ID: CDFF58A
Lab Sample ID: N54554-13
Matrix: SO - Soil
Method: SW846 8082 SW846 3550B
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 75.0

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF48064.D	1	12/12/03	OYA	12/03/03	OP15534	GEF2413
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	22	3.1	ug/kg	
11104-28-2	Aroclor 1221	ND	22	6.6	ug/kg	
11141-16-5	Aroclor 1232	ND	22	5.0	ug/kg	
53469-21-9	Aroclor 1242	ND	22	3.8	ug/kg	
12672-29-6	Aroclor 1248	ND	22	3.3	ug/kg	
11097-69-1	Aroclor 1254	146	22	2.1	ug/kg	5
11096-82-5	Aroclor 1260	54.0	22	3.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	84%		26-142%
877-09-8	Tetrachloro-m-xylene	82%		26-142%
2051-24-3	Decachlorobiphenyl	101%		32-153%
2051-24-3	Decachlorobiphenyl	96%		32-153%

02/06/04

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDFF58A
Lab Sample ID: N54554-13
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 75.0

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	75		%	1	12/04/03	TC	EPA 160.3 M

RL = Reporting Limit

Report of Analysis

Client Sample ID: CDFF53A1
Lab Sample ID: N54554-14
Matrix: SO - Soil
Method: SW846 8082 SW846 3550B
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 79.5

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF48065.D	1	12/12/03	OYA	12/03/03	OP15534	GEF2413
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.0	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.4	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.8	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.6	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.2	ug/kg	
11097-69-1	Aroclor 1254	272	21	2.0	ug/kg	
11096-82-5	Aroclor 1260	97.7	21	3.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	74%		26-142%
877-09-8	Tetrachloro-m-xylene	81%		26-142%
2051-24-3	Decachlorobiphenyl	93%		32-153%
2051-24-3	Decachlorobiphenyl	87%		32-153%

02/06/04
 [Signature]

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDFF53A1
Lab Sample ID: N54554-14
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 79.5

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	79.5		%	1	12/04/03	TC	EPA 160.3 M

OK
02/06/04

Report of Analysis

Client Sample ID: CDFF50A
Lab Sample ID: N54554-15
Matrix: SO - Soil
Method: SW846 8082 SW846 3550B
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 77.4

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF48066.D	1	12/12/03	OYA	12/03/03	OP15534	GEF2413
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.4 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.0	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.5	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.8	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.7	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.2	ug/kg	
11097-69-1	Aroclor 1254	324	21	2.1	ug/kg	J
11096-82-5	Aroclor 1260	124	21	3.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	87%		26-142%
877-09-8	Tetrachloro-m-xylene	83%		26-142%
2051-24-3	Decachlorobiphenyl	98%		32-153%
2051-24-3	Decachlorobiphenyl	93%		32-153%

02/06/04

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDFF50A
Lab Sample ID: N54554-15
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 77.4

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	77.4		%	1	12/04/03	TC	EPA 160.3 M

Report of Analysis

Client Sample ID: CDFF51A
Lab Sample ID: N54554-16
Matrix: SO - Soil
Method: SW846 8082 SW846 3550B
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 77.6


	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF48067.D	1	12/12/03	OYA	12/03/03	OP15534	GEF2413
Run #2							

	Initial Weight	Final Volume
Run #1	30.6 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.0	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.4	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.8	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.6	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.2	ug/kg	
11097-69-1	Aroclor 1254	797	21	2.1	ug/kg	
11096-82-5	Aroclor 1260	240	21	3.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	77%		26-142%
877-09-8	Tetrachloro-m-xylene	85%		26-142%
2051-24-3	Decachlorobiphenyl	98%		32-153%
2051-24-3	Decachlorobiphenyl	94%		32-153%


 02/04/04

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method link
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDFF51A
Lab Sample ID: N54554-16
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 77.6

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	77.6		%	1	12/04/03	TC	EPA 160.3 M

Handwritten: 02/06/04

Report of Analysis

Client Sample ID:	CDFF62A	Date Sampled:	12/02/03
Lab Sample ID:	N54554-17	Date Received:	12/03/03
Matrix:	SO - Soil	Percent Solids:	74.5
Method:	SW846 8082 SW846 3550B		
Project:	RFP# 4229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF48070.D	1	12/13/03	OYA	12/03/03	OP15534	GEF2413
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	22	3.2	ug/kg	
11104-28-2	Aroclor 1221	ND	22	6.8	ug/kg	
11141-16-5	Aroclor 1232	ND	22	5.1	ug/kg	
53469-21-9	Aroclor 1242	ND	22	3.9	ug/kg	
12672-29-6	Aroclor 1248	ND	22	3.4	ug/kg	
11097-69-1	Aroclor 1254	346	22	2.2	ug/kg	J
11096-82-5	Aroclor 1260	115	22	4.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	84%		26-142%
877-09-8	Tetrachloro-m-xylene	90%		26-142%
2051-24-3	Decachlorobiphenyl	104%		32-153%
2051-24-3	Decachlorobiphenyl	102%		32-153%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

02/06/04

Report of Analysis

Client Sample ID: CDFF62A
Lab Sample ID: N54554-17
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 74.5

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	74.5		%	1	12/04/03	TC	EPA 160.3 M

02/06/04

Report of Analysis

Client Sample ID: CDFF61A
Lab Sample ID: N54554-18
Matrix: SO - Soil
Method: SW846 8082 SW846 3550B
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 79.6

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF48071.D	1	12/13/03	OYA	12/03/03	OP15534	GEF2413
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.0	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.3	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.7	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.6	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.1	ug/kg	
11097-69-1	Aroclor 1254	323	21	2.0	ug/kg	
11096-82-5	Aroclor 1260	136	21	3.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	80%		26-142%
877-09-8	Tetrachloro-m-xylene	83%		26-142%
2051-24-3	Decachlorobiphenyl	97%		32-153%
2051-24-3	Decachlorobiphenyl	93%		32-153%

OYA
 02/06/04

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: CDFF61A
Lab Sample ID: N54554-18
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 79.6

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	79.6		%	1	12/04/03	TC	EPA 160.3 M

QA
02/06/04

RL = Reporting Limit

45

Report of Analysis

Client Sample ID: CDFF67C
Lab Sample ID: N54554-19
Matrix: SO - Soil
Method: SW846 8082 SW846 3550B
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 85.1

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF48072.D	1	12/13/03	OYA	12/03/03	OP15534	GEF2413
Run #2							

	Initial Weight	Final Volume
Run #1	30.8 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	19	2.7	ug/kg	
11104-28-2	Aroclor 1221	ND	19	5.8	ug/kg	
11141-16-5	Aroclor 1232	ND	19	4.3	ug/kg	
53469-21-9	Aroclor 1242	ND	19	3.3	ug/kg	
12672-29-6	Aroclor 1248	ND	19	2.9	ug/kg	
11097-69-1	Aroclor 1254	322	19	1.9	ug/kg	
11096-82-5	Aroclor 1260	95.0	19	3.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	79%		26-142%
877-09-8	Tetrachloro-m-xylene	85%		26-142%
2051-24-3	Decachlorobiphenyl	91%		32-153%
2051-24-3	Decachlorobiphenyl	86%		32-153%

02/06/04
 46

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDFF67C
Lab Sample ID: N54554-19
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 85.1

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	85.1		%	1	12/04/03	TC	EPA 160.3 M

RL = Reporting Limit

02/06/04

47

Report of Analysis

Client Sample ID: CDFF57A
Lab Sample ID: N54554-20
Matrix: SO - Soil
Method: SW846 8082 SW846 3550B
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 73.7

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47935.D	1	12/08/03	OYA	12/03/03	OP15535	GEF2409
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	22	3.2	ug/kg	
11104-28-2	Aroclor 1221	ND	22	6.8	ug/kg	
11141-16-5	Aroclor 1232	ND	22	5.1	ug/kg	
53469-21-9	Aroclor 1242	ND	22	3.9	ug/kg	
12672-29-6	Aroclor 1248	ND	22	3.4	ug/kg	
11097-69-1	Aroclor 1254	283	22	2.2	ug/kg	③
11096-82-5	Aroclor 1260	124	22	4.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	89%		26-142%
877-09-8	Tetrachloro-m-xylene	92%		26-142%
2051-24-3	Decachlorobiphenyl	89%		32-153%
2051-24-3	Decachlorobiphenyl	92%		32-153%

02/06/04

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: CDFF57A
Lab Sample ID: N54554-20
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 73.7

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	73.7		%	1	12/04/03	TC	EPA 160.3 M

02/06/04

RL = Reporting Limit

49

Report of Analysis

Client Sample ID:	CDF67D	Date Sampled:	12/02/03
Lab Sample ID:	N54554-21	Date Received:	12/03/03
Matrix:	SO - Soil	Percent Solids:	79.8
Method:	SW846 8082 SW846 3550B		
Project:	RFP# 4229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47966.D	1	12/09/03	OYA	12/03/03	OP15534	GEF2410
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.0	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.3	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.7	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.6	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.1	ug/kg	
11097-69-1	Aroclor 1254	214	21	2.0	ug/kg	
11096-82-5	Aroclor 1260	57.0	21	3.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	88%		26-142%
877-09-8	Tetrachloro-m-xylene	91%		26-142%
2051-24-3	Decachlorobiphenyl	99%		32-153%
2051-24-3	Decachlorobiphenyl	96%		32-153%

02/06/04

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: CDFF67D
Lab Sample ID: N54554-21
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 79.8

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	79.8		%	1	12/04/03	TC	EPA 160.3 M

RL = Reporting Limit

51

Report of Analysis

Client Sample ID: CDFF67B
Lab Sample ID: N54554-22
Matrix: SO - Soil
Method: SW846 8082 SW846 3550B
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 87.4

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47936.D	1	12/08/03	OYA	12/03/03	OP15535	GEF2409
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	19	2.7	ug/kg	
11104-28-2	Aroclor 1221	ND	19	5.8	ug/kg	
11141-16-5	Aroclor 1232	ND	19	4.3	ug/kg	
53469-21-9	Aroclor 1242	ND	19	3.3	ug/kg	
12672-29-6	Aroclor 1248	ND	19	2.9	ug/kg	
11097-69-1	Aroclor 1254	336	19	1.9	ug/kg	
11096-82-5	Aroclor 1260	109	19	3.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	86%		26-142%
877-09-8	Tetrachloro-m-xylene	88%		26-142%
2051-24-3	Decachlorobiphenyl	79%		32-153%
2051-24-3	Decachlorobiphenyl	80%		32-153%

OK
 02/06/04

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: CDFF67B
Lab Sample ID: N54554-22
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 87.4

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	87.4		%	1	12/05/03	TC	ASTM 4643-00

QA
02/06/04

RL = Reporting Limit

53

Report of Analysis

Client Sample ID: CDFF41A	
Lab Sample ID: N54554-23	Date Sampled: 12/02/03
Matrix: SO - Soil	Date Received: 12/03/03
Method: SW846 8082 SW846 3550B	Percent Solids: 78.4
Project: RFP# 4229	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47950.D	1	12/09/03	OYA	12/03/03	OP15535	GEF2409
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.0	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.4	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.8	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.7	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.2	ug/kg	
11097-69-1	Aroclor 1254	ND	21	2.1	ug/kg	
11096-82-5	Aroclor 1260	ND	21	3.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	78%		26-142%
877-09-8	Tetrachloro-m-xylene	84%		26-142%
2051-24-3	Decachlorobiphenyl	80%		32-153%
2051-24-3	Decachlorobiphenyl	79%		32-153%

02/06/04

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: CDFF41A
Lab Sample ID: N54554-23
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 78.4

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	78.4		%	1	12/04/03	TC	EPA 160.3 M

RL = Reporting Limit

55

JS
02/06/04

Report of Analysis

Client Sample ID: CDFF64A
Lab Sample ID: N54554-24
Matrix: SO - Soil
Method: SW846 8082 SW846 3550B
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 77.0

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47937.D	1	12/08/03	OYA	12/03/03	OP15535	GEF2409
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	22	3.1	ug/kg	
11104-28-2	Aroclor 1221	ND	22	6.6	ug/kg	
11141-16-5	Aroclor 1232	ND	22	4.9	ug/kg	
53469-21-9	Aroclor 1242	ND	22	3.7	ug/kg	
12672-29-6	Aroclor 1248	ND	22	3.3	ug/kg	
11097-69-1	Aroclor 1254	198	22	2.1	ug/kg	J
11096-82-5	Aroclor 1260	91.3	22	3.8	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	91%		26-142%
877-09-8	Tetrachloro-m-xylene	95%		26-142%
2051-24-3	Decachlorobiphenyl	87%		32-153%
2051-24-3	Decachlorobiphenyl	89%		32-153%

02/06/04
 J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDFF64A
Lab Sample ID: N54554-24
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 77.0

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	77		%	1	12/04/03	TC	EPA 160.3 M

02/06/04

Report of Analysis

Client Sample ID: CDDFF56A
Lab Sample ID: N54554-25
Matrix: SO - Soil
Method: SW846 8082 SW846 3550B
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 77.3

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47938.D	1	12/08/03	OYA	12/03/03	OP15535	GEF2409
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.1	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.5	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.9	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.7	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.2	ug/kg	
11097-69-1	Aroclor 1254	251	21	2.1	ug/kg	
11096-82-5	Aroclor 1260	134	21	3.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	78%		26-142%
877-09-8	Tetrachloro-m-xylene	82%		26-142%
2051-24-3	Decachlorobiphenyl	80%		32-153%
2051-24-3	Decachlorobiphenyl	81%		32-153%

02/06/04

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDF56A
Lab Sample ID: N54554-25
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 77.3

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	77.3		%	1	12/04/03	TC	EPA 160.3 M

02/06/04

Report of Analysis

Client Sample ID: CDFF48A
Lab Sample ID: N54554-26
Matrix: SO - Soil
Method: SW846 8082 SW846 3550B
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 76.4

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB43577.D	1	12/06/03	OYA	12/04/03	OP15539	GAB2138
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.5 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.1	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.5	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.9	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.7	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.2	ug/kg	
11097-69-1	Aroclor 1254 ^a	75.3	21	2.1	ug/kg	(J)
11096-82-5	Aroclor 1260 ^a	31.3	21	3.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	44%		26-142%
877-09-8	Tetrachloro-m-xylene	49%		26-142%
2051-24-3	Decachlorobiphenyl	61%		32-153%
2051-24-3	Decachlorobiphenyl	49%		32-153%

(a) Reported from 1st signal.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

02/06/04

Report of Analysis

Client Sample ID: CDFF48A
Lab Sample ID: N54554-26
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 76.4

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	76.4		%	1	12/05/03	TC	ASTM 4643-00

QA
02/02/04

Report of Analysis

Client Sample ID:	CDFF54A	Date Sampled:	12/02/03
Lab Sample ID:	N54554-27	Date Received:	12/03/03
Matrix:	SO - Soil	Percent Solids:	76.2
Method:	SW846 8082 SW846 3550B		
Project:	RFP# 4229		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47939.D	1	12/08/03	OYA	12/03/03	OP15535	GEF2409
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	22	3.1	ug/kg	
11104-28-2	Aroclor 1221	ND	22	6.6	ug/kg	
11141-16-5	Aroclor 1232	ND	22	5.0	ug/kg	
53469-21-9	Aroclor 1242	ND	22	3.7	ug/kg	
12672-29-6	Aroclor 1248	ND	22	3.3	ug/kg	
11097-69-1	Aroclor 1254	267	22	2.1	ug/kg	
11096-82-5	Aroclor 1260	147	22	3.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	86%		26-142%
877-09-8	Tetrachloro-m-xylene	89%		26-142%
2051-24-3	Decachlorobiphenyl	82%		32-153%
2051-24-3	Decachlorobiphenyl	82%		32-153%

Q
02/06/04

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID: CDF54A
Lab Sample ID: N54554-27
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 76.2

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	76.2		%	1	12/04/03	TC	EPA 160.3 M

Report of Analysis

Client Sample ID: CDFF55A
Lab Sample ID: N54554-28
Matrix: SO - Soil
Method: SW846 8082 SW846 3550B
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 75.2

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47943.D	1	12/09/03	OYA	12/03/03	OP15535	GEF2409
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	22	3.2	ug/kg	
11104-28-2	Aroclor 1221	ND	22	6.7	ug/kg	
11141-16-5	Aroclor 1232	ND	22	5.0	ug/kg	
53469-21-9	Aroclor 1242	ND	22	3.8	ug/kg	
12672-29-6	Aroclor 1248	ND	22	3.3	ug/kg	
11097-69-1	Aroclor 1254	180	22	2.2	ug/kg	J
11096-82-5	Aroclor 1260	94.2	22	3.9	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	80%		26-142%
877-09-8	Tetrachloro-m-xylene	88%		26-142%
2051-24-3	Decachlorobiphenyl	80%		32-153%
2051-24-3	Decachlorobiphenyl	83%		32-153%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

02/06/04

Report of Analysis

Page 1 of 1

Client Sample ID: CDFF55A
Lab Sample ID: N54554-28
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 75.2

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	75.2		%	1	12/04/03	TC	EPA 160.3 M

02/06/04

RL = Reporting Limit

Report of Analysis

Client Sample ID: CDFF66D	Date Sampled: 12/02/03
Lab Sample ID: N54554-29	Date Received: 12/03/03
Matrix: SO - Soil	Percent Solids: 80.8
Method: SW846 8082 SW846 3550B	
Project: RFP# 4229	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47944.D	1	12/09/03	OYA	12/03/03	OP15535	GEF2409
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	20	2.9	ug/kg	
11104-28-2	Aroclor 1221	ND	20	6.2	ug/kg	
11141-16-5	Aroclor 1232	ND	20	4.7	ug/kg	
53469-21-9	Aroclor 1242	ND	20	3.5	ug/kg	
12672-29-6	Aroclor 1248	ND	20	3.1	ug/kg	
11097-69-1	Aroclor 1254	124	20	2.0	ug/kg	
11096-82-5	Aroclor 1260	41.7	20	3.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	86%		26-142%
877-09-8	Tetrachloro-m-xylene	100%		26-142%
2051-24-3	Decachlorobiphenyl	86%		32-153%
2051-24-3	Decachlorobiphenyl	88%		32-153%

02/06/04

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDFP66D
Lab Sample ID: N54554-29
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 80.8

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	80.8		%	1	12/05/03	TC	ASTM 4643-00

QA
02/06/04

Report of Analysis

Client Sample ID: CDF66C
Lab Sample ID: N54554-30
Matrix: SO - Soil
Method: SW846 8082 SW846 3550B
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 83.2

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47945.D	1	12/09/03	OYA	12/03/03	OP15535	GEF2409
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	20	2.9	ug/kg	
11104-28-2	Aroclor 1221	ND	20	6.1	ug/kg	
11141-16-5	Aroclor 1232	ND	20	4.6	ug/kg	
53469-21-9	Aroclor 1242	ND	20	3.5	ug/kg	
12672-29-6	Aroclor 1248	ND	20	3.0	ug/kg	
11097-69-1	Aroclor 1254	454	20	2.0	ug/kg	
11096-82-5	Aroclor 1260	165	20	3.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	81%		26-142%
877-09-8	Tetrachloro-m-xylene	88%		26-142%
2051-24-3	Decachlorobiphenyl	85%		32-153%
2051-24-3	Decachlorobiphenyl	84%		32-153%

02/06/04

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: CDFF66C
Lab Sample ID: N54554-30
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 83.2

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	83.2		%	1	12/05/03	TC	ASTM 4643-00

QA
02/06/04

RL = Reporting Limit

Report of Analysis

Client Sample ID: CDF66B
Lab Sample ID: N54554-31
Matrix: SO - Soil
Method: SW846 8082 SW846 3550B
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 81.9

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47946.D	1	12/09/03	OYA	12/03/03	OP15535	GEF2409
Run #2	EF47983.D	4	12/10/03	OYA	12/03/03	OP15535	GEF2410

	Initial Weight	Final Volume
Run #1	30.2 g	10.0 ml
Run #2	30.2 g	10.0 ml

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	20	2.9	ug/kg	
11104-28-2	Aroclor 1221	ND	20	6.1	ug/kg	
11141-16-5	Aroclor 1232	ND	20	4.6	ug/kg	
53469-21-9	Aroclor 1242	ND	20	3.5	ug/kg	
12672-29-6	Aroclor 1248	ND	20	3.1	ug/kg	
11097-69-1	Aroclor 1254	1860 ^a	81	7.9	ug/kg	(D)
11096-82-5	Aroclor 1260	625	20	3.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	88%	86%	26-142%
877-09-8	Tetrachloro-m-xylene	93%	86%	26-142%
2051-24-3	Decachlorobiphenyl	80%	109%	32-153%
2051-24-3	Decachlorobiphenyl	82%	116%	32-153%

(a) Result is from Run# 2

02/06/04

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDFF66B
Lab Sample ID: N54554-31
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 81.9

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	81.9		%	1	12/05/03	TC	ASTM 4643-00

02/06/04

Report of Analysis

Client Sample ID: CDF40A1
Lab Sample ID: N54554-32
Matrix: SO - Soil
Method: SW846 8082 SW846 3550B
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 79.1

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47947.D	1	12/09/03	OYA	12/03/03	OP15535	GEF2409
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.0	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.3	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.7	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.6	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.1	ug/kg	
11097-69-1	Aroclor 1254	ND	21	2.0	ug/kg	
11096-82-5	Aroclor 1260	ND	21	3.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	68%		26-142%
877-09-8	Tetrachloro-m-xylene	91%		26-142%
2051-24-3	Decachlorobiphenyl	82%		32-153%
2051-24-3	Decachlorobiphenyl	82%		32-153%

Handwritten signature
 02/04/04

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: CDFF40A1

Lab Sample ID: N54554-32

Matrix: SO - Soil

Project: RFP# 4229

Date Sampled: 12/02/03

Date Received: 12/03/03

Percent Solids: 79.1

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	79.1		%	1	12/04/03	TC	EPA 160.3 M

QA
02/06/04

73

RL = Reporting Limit

Report of Analysis

Client Sample ID: CDF40A
Lab Sample ID: N54554-33
Matrix: SO - Soil
Method: SW846 8082 SW846 3550B
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 77.3

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47948.D	1	12/09/03	OYA	12/03/03	OP15535	GEF2409
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.1	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.5	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.9	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.7	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.3	ug/kg	
11097-69-1	Aroclor 1254	ND	21	2.1	ug/kg	
11096-82-5	Aroclor 1260	ND	21	3.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	78%		26-142%
877-09-8	Tetrachloro-m-xylene	88%		26-142%
2051-24-3	Decachlorobiphenyl	82%		32-153%
2051-24-3	Decachlorobiphenyl	82%		32-153%

02/06/04
 74

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: CDFF40A
Lab Sample ID: N54554-33
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 77.3

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	77.3		%	1	12/04/03	TC	EPA 160.3 M

02/06/04

75

RL = Reporting Limit

Report of Analysis

Client Sample ID: CDFF42A
Lab Sample ID: N54554-34
Matrix: SO - Soil
Method: SW846 8082 SW846 3550B
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 76.9

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47949.D	1	12/09/03	OYA	12/03/03	OP15535	GEF2409
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.1	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.5	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.9	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.7	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.2	ug/kg	
11097-69-1	Aroclor 1254	457	21	2.1	ug/kg	J
11096-82-5	Aroclor 1260	138	21	3.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	77%		26-142%
877-09-8	Tetrachloro-m-xylene	84%		26-142%
2051-24-3	Decachlorobiphenyl	77%		32-153%
2051-24-3	Decachlorobiphenyl	74%		32-153%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

76

02/06/04
 J

Report of Analysis

Client Sample ID: CDFF42A
Lab Sample ID: N54554-34
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 76.9

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	76.9		%	1	12/04/03	TC	EPA 160.3 M

02/06/04

77

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CDF33A	Date Sampled:	12/02/03
Lab Sample ID:	N54554-35	Date Received:	12/03/03
Matrix:	SO - Soil	Percent Solids:	79.8
Method:	SW846 8082 SW846 3550B		
Project:	RFP# 4229		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47977.D	1	12/10/03	OYA	12/03/03	OP15535	GEF2410
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.0	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.3	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.7	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.6	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.1	ug/kg	
11097-69-1	Aroclor 1254	264	21	2.0	ug/kg	J
11096-82-5	Aroclor 1260	96.3	21	3.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	86%		26-142%
877-09-8	Tetrachloro-m-xylene	90%		26-142%
2051-24-3	Decachlorobiphenyl	98%		32-153%
2051-24-3	Decachlorobiphenyl	97%		32-153%

OK
12/06/04

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDFF33A
Lab Sample ID: N54554-35
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 79.8

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	79.8		%	1	12/04/03	TC	EPA 160.3 M

RL = Reporting Limit

QA
02/06/04

79

Report of Analysis

Client Sample ID: CDF34A
Lab Sample ID: N54554-36
Matrix: SO - Soil
Method: SW846 8082 SW846 3550B
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 77.1


	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47978.D	1	12/10/03	OYA	12/03/03	OP15535	GEF2410
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.1	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.5	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.9	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.7	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.2	ug/kg	
11097-69-1	Aroclor 1254	485	21	2.1	ug/kg	
11096-82-5	Aroclor 1260	180	21	3.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	76%		26-142%
877-09-8	Tetrachloro-m-xylene	83%		26-142%
2051-24-3	Decachlorobiphenyl	94%		32-153%
2051-24-3	Decachlorobiphenyl	96%		32-153%


 02/02/04

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDFF34A
Lab Sample ID: N54554-36
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 77.1

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	77.1		%	1	12/04/03	TC	EPA 160.3 M

02/06/04

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CDF37A	Date Sampled:	12/02/03
Lab Sample ID:	N54554-37	Date Received:	12/03/03
Matrix:	SO - Soil	Percent Solids:	75.9
Method:	SW846 8082 SW846 3550B		
Project:	RFP# 4229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47979.D	1	12/10/03	OYA	12/03/03	OP15535	GEF2410
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	22	3.1	ug/kg	
11104-28-2	Aroclor 1221	ND	22	6.6	ug/kg	
11141-16-5	Aroclor 1232	ND	22	4.9	ug/kg	
53469-21-9	Aroclor 1242	ND	22	3.7	ug/kg	
12672-29-6	Aroclor 1248	ND	22	3.3	ug/kg	
11097-69-1	Aroclor 1254	664	22	2.1	ug/kg	
11096-82-5	Aroclor 1260	217	22	3.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	78%		26-142%
877-09-8	Tetrachloro-m-xylene	81%		26-142%
2051-24-3	Decachlorobiphenyl	91%		32-153%
2051-24-3	Decachlorobiphenyl	96%		32-153%

02/06/04

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDFF37A
Lab Sample ID: N54554-37
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 75.9

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	75.9		%	1	12/04/03	TC	EPA 160.3 M

02/06/04

RL = Reporting Limit

Report of Analysis

Client Sample ID: CDF36A
 Lab Sample ID: N54554-38
 Matrix: SO - Soil
 Method: SW846 8082 SW846 3550B
 Project: RFP# 4229

Date Sampled: 12/02/03
 Date Received: 12/03/03
 Percent Solids: 70.6

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47940.D	1	12/08/03	OYA	12/03/03	OP15535	GEF2409
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	23	3.4	ug/kg	
11104-28-2	Aroclor 1221	ND	23	7.1	ug/kg	
11141-16-5	Aroclor 1232	ND	23	5.3	ug/kg	
53469-21-9	Aroclor 1242	ND	23	4.0	ug/kg	
12672-29-6	Aroclor 1248	ND	23	3.6	ug/kg	
11097-69-1	Aroclor 1254 ^a	468	23	2.3	ug/kg	J
11096-82-5	Aroclor 1260	142	23	4.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	87%		26-142%
877-09-8	Tetrachloro-m-xylene	90%		26-142%
2051-24-3	Decachlorobiphenyl	87%		32-153%
2051-24-3	Decachlorobiphenyl	87%		32-153%

(a) More than 40 % RPD for detected concentrations between the two GC columns.

02/06/04

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDFF36A
Lab Sample ID: N54554-38
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 70.6

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	70.6		%	1	12/04/03	TC	EPA 160.3 M

PA
12/02/04

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CDF35A	Date Sampled:	12/02/03
Lab Sample ID:	N54554-39	Date Received:	12/03/03
Matrix:	SO - Soil	Percent Solids:	74.9
Method:	SW846 8082 SW846 3550B		
Project:	RFP# 4229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47980.D	1	12/10/03	OYA	12/03/03	OP15535	GEF2410
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	22	3.2	ug/kg	
11104-28-2	Aroclor 1221	ND	22	6.7	ug/kg	
11141-16-5	Aroclor 1232	ND	22	5.0	ug/kg	
53469-21-9	Aroclor 1242	ND	22	3.8	ug/kg	
12672-29-6	Aroclor 1248	ND	22	3.3	ug/kg	
11097-69-1	Aroclor 1254	652	22	2.2	ug/kg	
11096-82-5	Aroclor 1260	209	22	3.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	83%		26-142%
877-09-8	Tetrachloro-m-xylene	82%		26-142%
2051-24-3	Decachlorobiphenyl	104%		32-153%
2051-24-3	Decachlorobiphenyl	101%		32-153%

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02/06/04

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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Report of Analysis

Page 1 of 1

Client Sample ID: CDFF35A
Lab Sample ID: N54554-39
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 74.9

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	74.9		%	1	12/04/03	TC	EPA 160.3 M

02/06/04

RL = Reporting Limit

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Report of Analysis

Client Sample ID: CDF65D
Lab Sample ID: N54554-40
Matrix: SO - Soil
Method: SW846 8082 SW846 3550B
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 86.1

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47981.D	1	12/10/03	OYA	12/03/03	OP15535	GEF2410
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	19	2.7	ug/kg	
11104-28-2	Aroclor 1221	ND	19	5.8	ug/kg	
11141-16-5	Aroclor 1232	ND	19	4.4	ug/kg	
53469-21-9	Aroclor 1242	ND	19	3.3	ug/kg	
12672-29-6	Aroclor 1248	ND	19	2.9	ug/kg	
11097-69-1	Aroclor 1254	112	19	1.9	ug/kg	
11096-82-5	Aroclor 1260	ND	19	3.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	90%		26-142%
877-09-8	Tetrachloro-m-xylene	92%		26-142%
2051-24-3	Decachlorobiphenyl	94%		32-153%
2051-24-3	Decachlorobiphenyl	103%		32-153%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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02/04/04
 [Signature]

Report of Analysis

Client Sample ID: CDFF65D
Lab Sample ID: N54554-40
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 86.1

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	86.1		%	1	12/04/03	TC	EPA 160.3 M

9/1
02/06/04

Report of Analysis

Client Sample ID: CDF39A
Lab Sample ID: N54554-41
Matrix: SO - Soil
Method: SW846 8082 SW846 3550B
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 78.9

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47982.D	1	12/10/03	OYA	12/03/03	OP15535	GEF2410
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.0	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.4	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.8	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.6	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.2	ug/kg	
11097-69-1	Aroclor 1254	296	21	2.1	ug/kg	③
11096-82-5	Aroclor 1260	182	21	3.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	87%		26-142%
877-09-8	Tetrachloro-m-xylene	90%		26-142%
2051-24-3	Decachlorobiphenyl	106%		32-153%
2051-24-3	Decachlorobiphenyl	99%		32-153%

02/06/04

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDFF39A
Lab Sample ID: N54554-41
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 78.9

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	78.9		%	1	12/04/03	TC	EPA 160.3 M

RL = Reporting Limit

Report of Analysis

Client Sample ID: CDFF38A
Lab Sample ID: N54554-42
Matrix: SO - Soil
Method: SW846 8082 SW846 3550B
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 70.6

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB43578.D	1	12/06/03	OYA	12/04/03	OP15539	GAB2138
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	24	3.4	ug/kg	
11104-28-2	Aroclor 1221	ND	24	7.2	ug/kg	
11141-16-5	Aroclor 1232	ND	24	5.4	ug/kg	
53469-21-9	Aroclor 1242	ND	24	4.1	ug/kg	
12672-29-6	Aroclor 1248	ND	24	3.6	ug/kg	
11097-69-1	Aroclor 1254 ^a	884	24	2.3	ug/kg	
11096-82-5	Aroclor 1260 ^a	171	24	4.2	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	79%		26-142%
877-09-8	Tetrachloro-m-xylene	68%		26-142%
2051-24-3	Decachlorobiphenyl	111%		32-153%
2051-24-3	Decachlorobiphenyl	103%		32-153%

(a) Report from 1st signal.

OK
02/06/04

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDFF38A
Lab Sample ID: N54554-42
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 70.6

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	70.6		%	1	12/04/03	TC	EPA 160.3 M

[Signature]
02/04/04

RL = Reporting Limit

Report of Analysis

Client Sample ID: CDFF65C
 Lab Sample ID: N54554-43
 Matrix: SO - Soil
 Method: SW846 8082 SW846 3550B
 Project: RFP# 4229

Date Sampled: 12/02/03
 Date Received: 12/03/03
 Percent Solids: 82.9

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB43581.D	1	12/06/03	OYA	12/04/03	OP15539	GAB2138
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.5 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	20	2.8	ug/kg	
11104-28-2	Aroclor 1221	ND	20	6.0	ug/kg	
11141-16-5	Aroclor 1232	ND	20	4.5	ug/kg	
53469-21-9	Aroclor 1242	ND	20	3.4	ug/kg	
12672-29-6	Aroclor 1248	ND	20	3.0	ug/kg	
11097-69-1	Aroclor 1254 ^a	142	20	1.9	ug/kg	J
11096-82-5	Aroclor 1260 ^b	44.6	20	3.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	82%		26-142%
877-09-8	Tetrachloro-m-xylene	71%		26-142%
2051-24-3	Decachlorobiphenyl	102%		32-153%
2051-24-3	Decachlorobiphenyl	95%		32-153%

(a) Reported from 1st signal. More than 40 % RPD for detected concentrations between the two GC columns.

(b) Report from 1st signal.

Handwritten signature
 02/06/04

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDFF65C
Lab Sample ID: N54554-43
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 82.9

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	82.9		%	1	12/05/03	TC	ASTM 4643-00

RL = Reporting Limit

Handwritten signature
02/04

Report of Analysis

Client Sample ID:	CDFF65B	Date Sampled:	12/02/03
Lab Sample ID:	N54554-44	Date Received:	12/03/03
Matrix:	SO - Soil	Percent Solids:	82.2
Method:	SW846 8082 SW846 3550B		
Project:	RFP# 4229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB43582.D	1	12/06/03	OYA	12/04/03	OP15539	GAB2138
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	20	2.9	ug/kg	
11104-28-2	Aroclor 1221	ND	20	6.1	ug/kg	
11141-16-5	Aroclor 1232	ND	20	4.6	ug/kg	
53469-21-9	Aroclor 1242	ND	20	3.5	ug/kg	
12672-29-6	Aroclor 1248	ND	20	3.1	ug/kg	
11097-69-1	Aroclor 1254 ^a	293	20	2.0	ug/kg	J
11096-82-5	Aroclor 1260 ^a	79.2	20	3.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	84%		26-142%
877-09-8	Tetrachloro-m-xylene	81%		26-142%
2051-24-3	Decachlorobiphenyl	103%		32-153%
2051-24-3	Decachlorobiphenyl	93%		32-153%

(a) Report from 1st signal.

02/6/04

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: CDFF65B
Lab Sample ID: N54554-44
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 82.2

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	82.2		%	1	12/04/03	TC	EPA 160.3 M

RL = Reporting Limit

JA
12/4/04

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APPENDIX A
Chain of Custody
Cornell-Dubilier Electronics Site

CHAIN OF CUSTODY RECORD



Removal Support Team

EPA Contract 68-W-00-113

Phone: (732) 225-6116 Fax: (732) 225-7037

RFP No.: 4229
PO No.:

Matrix Box No.:	Preservative Box No.:
1. Surface	1. HCL
2. Ground water	2. HNO ₃
3. Leachate	3. Na ₂ SO ₄
4. Rinse	4. H ₂ SO ₄
5. Soil/Sediment	5. Other (specify)
6. Oil	6. Ice Only
7. Waste	7. Not preserved
8. Other (Specify)	*See Comments

Send verbal and written results to:

Weston Solutions, Inc.
Suite 201, 1090 King Georges Post Road, Edison, NJ 08837-3703
Attention: Smita Sumbaly, RST Analytical Coordinator

						RAS ANALYSIS				RCRA ANALYSIS					
Sample Number	Sample Collection DATE/TIME	Sample Matrix	Conc. Level: Med-M High-H	Sample Type Comp-C Grab-G	Sample Preserv.	VOA	BHA	PEST	PCBs	TAL	CN	IGN	COR	REAC	OTHER
CDFF41H	12/2/05 1222	5	L	G	G				X						
CDFF64A	1413								X						
CDFF56A	1416								X						
CDFF48A	1424								X						
CDFF54A	1419								X						
CDFF55A	1428								X						
CDFF66D	1444								X						
CDFF66C	1440								X						
CDFF66B	1437								X						
CDFF40H	1217								X						
CDFF4XA	1215								X						

Comments:

* Should be sample # CDF40A (D. Mason)
* Use for MS/MSD

Person Assuming Responsibility for Samples:

Time/Date:

Sample Number: All	Relinquished by: Dean Mason	Time: 1005	Date: 12/5/13	Received by: 	Reason for Change of Custody:
Sample Number:	Relinquished by:	Time:	Date:	Received by:	Reason for Change of Custody:
Sample Number:	Relinquished by:	Time:	Date:	Received by:	Reason for Change of Custody:

Weston Solutions, Inc.

FEDERAL PROGRAMS DIVISION

In Association with Scientific and Environmental Associates, Inc., Resource Applications, Inc., and Innovative Technological Solutions, Inc.

CHAIN OF CUSTODY RECORD

RFP No.
4229
PO No.



Removal Support Team
 EPA Contract 68-W-00-113
 Phone: (732) 225-6116 Fax: (732) 225-7037

Matrix Box No.	Preservative Box No.
1. Surface	1. HCL
2. Ground water	2. HNO ₃
3. Leachate	3. Na ₂ SO ₄
4. Rinsate	4. H ₂ SO ₄
5. Soil/Sediment	5 Other (specify)
6. Oil	6. Ice Only
7. Waste	N. Not preserved
8. Other (Specify)	*See Comments

Send verbal and written results to:

Weston Solutions, Inc.
 Suite 201, 1090 King Georges Post Road, Edison, NJ 08837-3703
 Attention: Smita Sumbaly, RST Analytical Coordinator

							RAS ANALYSIS					RCRA ANALYSIS				
Sample Number	Sample Collection Method/Time	Sample Matrix	Conc. Low-M Med-M High-H	Sample Type Comp-C Grab-G	Sample Preserv.		VOCs	BNA	PEST	PCBs	TAL	CN	IGN	COR	REAC	OTHER
CDFF42A	12/2/03 12:30	5	L	G	G					X						
CDFF33A	11:00									X						
CDFF34A	11:00									X						
CDFF37A	11:35									X						
CDFF36A	11:23									X						
CDFF35A	11:14									X						
CDFF65D	15:23									X						
CDFF39A	12:00									X						
CDFF38A	11:53									X						
CDFF65C	15:18									X						
CDFF65D	15:10									X						

Comments:

Person Assuming Responsibility for Samples:

Time/Date:

Sample Number:	Relinquished by:	Time:	Date:	Received by:	Reason for Change of Custody:
ALL	Dean Mason	1005	12/5/13		
Sample Number:	Relinquished by:	Time:	Date:	Received by:	Reason for Change of Custody:
Sample Number:	Relinquished by:	Time:	Date:	Received by:	Reason for Change of Custody:

Weston Solutions, Inc.

FEDERAL PROGRAMS DIVISION

In Association with Scientific and Environmental Associates, Inc., Resource Applications, Inc., and Innovative Technological Solutions, Inc.

CHAIN OF CUSTODY RECORD



Removal Support Team

EPA Contract 68-W-00-113

Phone: (732) 225-6116 Fax: (732) 225-7037

RFP No.:	4229
PO No.:	

Matrix Box No.	Preservative Box No.
1. Surface	1. HCL
2. Ground water	2. HNO ₃
3. Leachate	3. Na ₂ SO ₄
4. Rinse	4. H ₂ SO ₄
5. Soil/Sediment	5. Other (specify)
6. Oil	6. Ice Only
7. Waste	N. Not preserved
8. Other (Specify)	*See Comments

Send verbal and written results to:

Weston Solutions, Inc.

Suite 201, 1090 King Georges Post Road, Edison, NJ 08837-3703

Attention: Smita Sumbaly, RST Analytical Coordinator

						RAS ANALYSIS					RCRA ANALYSIS				
Sample Number	Sample Collection MM/DD/YYYY Time	Sample Matrix	Conc. Low-L Med-M High-H	Sample Type Comp-C Grab-G	Sample Preserv.	VOA	BNA	PEST	PCBs	TAL	CN	IGN	COR	REAC	OTHER
CDFF47A	12/2/03 1430	5	L	G	6				X						
CDFF58A	1 1407								X						
CDFF53A	1 1341								X						
CDFF50A	1 1354								X						
CDFF51A	1 1359								X						
CDFF62A	1 1402								X						
CDFF61A	1 1353								X						
CDFF67C	1 1456								X						
CDFF57A	1 1411								X						
CDFF67D	1 1501								X						
CDFF67B	1 1452	+	+	+	+				X						

Comments:

* Use for MS/MSD

Person Assuming Responsibility for Samples:

Time/Date:

Sample Number:	Relinquished by:	Time:	Date:	Received by:	Reason for Change of Custody:
111	Dean Mauer	1005	12/3/03		
Sample Number:	Relinquished by:	Time:	Date:	Received by:	Reason for Change of Custody:
Sample Number:	Relinquished by:	Time:	Date:	Received by:	Reason for Change of Custody:

Weston Solutions, Inc.

FEDERAL PROGRAMS DIVISION

In Association with Scientific and Environmental Associates, Inc., Resource Applications, Inc., and Innovative Technological Solutions, Inc.

CHAIN OF CUSTODY RECORD



Removal Support Team

EPA Contract 68-W-00-113

Phone: (732) 225-6116 Fax: (732) 225-7037

RFP No.: 4229
PO No.:

Matrix Box No.:	Preservative Box No.:
1. Surface	1. HCL
2. Ground water	2. HNO ₃
3. Leachate	3. Na ₂ SO ₄
4. Rinse	4. H ₂ SO ₄
5. Soil/Sediment	5. Other (specify)
6. Oil	6. Ice Only
7. Waste	N. Not preserved
8. Other (Specify)	*See Comments

Send verbal and written results to:

Weston Solutions, Inc.

Suite 201, 1090 King Georges Post Road, Edison, NJ 08837-3703

Attention: Smita Sumbaly, RST Analytical Coordinator

							RAS ANALYSIS					RCRA ANALYSIS				
Sample Number	Sample Collection MM/DD/YY Time	Sample Matrix	Conc. Low-L Med-H High-H	Sample Type Comp-C Grab-G	Sample Preserv.		VOA	BNA	PEST	PCBs	TAL	CN	IGN	COR	REAC	OTHER
CDFFS2A	12/4/03 1357	S	L	G	6					X						
CDFF49A	12/4/03 1347									X						
CDFF59A	12/4/03 1347									X						
CDFF60A	12/4/03 1254									X						
CDFF45A	12/4/03 1249									X						
CDFF44A	12/4/03 1257									X						
CDFF48A	12/4/03 1405									X						
CDFF46A	12/4/03 1243									X						
CDFF63A	12/4/03 1408									X						
CDFF53A	12/4/03 1344									X						
CDFF43A	12/3/03									X						

Comments:

2.4

Person Assuming Responsibility for Samples:

Time/Date:

Sample Number: H11	Relinquished by: Dean M. [Signature]	Time: 1005	Date: 12/5/03	Received by: [Signature]	Reason for Change of Custody:
Sample Number:	Relinquished by:	Time:	Date:	Received by:	Reason for Change of Custody:
Sample Number:	Relinquished by:	Time:	Date:	Received by:	Reason for Change of Custody:

Weston Solutions, Inc.

FEDERAL PROGRAMS DIVISION

In Association with Scientific and Environmental Associates, Inc., Resource Applications, Inc., and Innovative Technological Solutions, Inc.

CORNELL - DUBILIER SITE 126 SPICER AVENUE SAMPLE POINTS

Sample Point	Longitude	Latitude
CD-FF-33	-74.41394089	40.57513384
CD-FF-34	-74.41388768	40.57507833
CD-FF-35	-74.41389757	40.57504111
CD-FF-36	-74.41393191	40.57497956
CD-FF-37	-74.41395187	40.57491619
CD-FF-38	-74.41395848	40.57487828
CD-FF-39	-74.4140236	40.57486948
CD-FF-40	-74.41416066	40.57489761
CD-FF-41	-74.41417979	40.57503248
CD-FF-42	-74.41407953	40.57515934
CD-FF-43	-74.41416084	40.5752138
CD-FF-44	-74.41423524	40.57521333
CD-FF-45	-74.41423902	40.57525424
CD-FF-46	-74.41418033	40.57527004
CD-FF-47	-74.4143727	40.5750543
CD-FF-48	-74.4144281	40.57506401
CD-FF-49	-74.41431129	40.57530625
CD-FF-50	-74.41436927	40.57530083
CD-FF-51	-74.4143942	40.57534746
CD-FF-52	-74.41431935	40.57534556
CD-FF-53	-74.41424834	40.57519541
CD-FF-54	-74.41429992	40.57514027
CD-FF-55	-74.41434947	40.57508665
CD-FF-56	-74.4144719	40.57507563
CD-FF-57	-74.4144206	40.57512604
CD-FF-58	-74.41437101	40.57517894
CD-FF-59	-74.41432143	40.57523445
CD-FF-60	-74.41427775	40.57529095
CD-FF-61	-74.41439061	40.57527314
CD-FF-62	-74.41444282	40.57522176
CD-FF-63	-74.41449232	40.5751672
CD-FF-64	-74.41454132	40.57511387
CD-FF-65	-74.41406926	40.57493601
CD-FF-66	-74.41438961	40.57504011
CD-FF-67	-74.41434173	40.57532237

All sample points are listed in decimal degrees

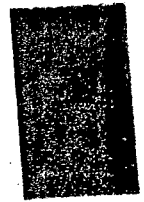


REMOVAL SUPPORT TEAM
EPA CONTRACT 68-W-00-113

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OSC

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RST-02-F-01371

TRANSMITTAL MEMO

To: Eric Wilson
Removal Action Branch,
U.S. EPA Region II

From: Jeralyn Guthrie, Data Reviewer
RST Region II

Subject: Cornell Dubilier Electronics Site
Data Validation Assessment

Date: February 16, 2004

The purpose of this memo is to transmit the following information:

- Data validation results for the following parameters:
 - PCBs 44 samples
- Matrices and Number of Samples
 - Soil 44 samples
- Sampling date: December 02, 2003

The final data assessment narrative and original analytical data package are attached.

cc: RST PM: Dean Maser
RST SITE FILE TDD #: 02-03-11-0018
ANALYTICAL TDD #: 02-03-12-0006
PCS# 4229



U.S. ENVIRONMENTAL PROTECTION AGENCY

MEMORANDUM

DATE: February 9, 2004

TO: Eric Wilson
USEPA Region II

FROM: Jeralyn Guthrie
RST Data Review Team

SUBJECT: QA/QC Compliance Review Summary

As requested quality control and performance measures for the data packages noted have been examined and compared to EPA standards for compliance. Measures for the following general areas were evaluated as applicable:

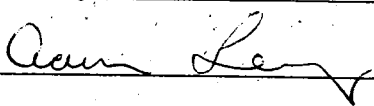
Data Completeness	Blanks
Spectra Matching Quality	DFTPP and BFB Tuning
Surrogate Spikes	Chromatography
Matrix Spikes/Duplicates	Holding Times
Calibration	Compound ID (HSL, TIC)

Any statistical measures used to support the following conclusions are attached so that the review may be reviewed by others.

Summary of Results

	I <u>PCB</u>	II _____	III _____	IV _____
Acceptable as Submitted	_____	_____	_____	_____
Acceptable with Comments	<u>X</u>	_____	_____	_____
Unacceptable, Action Pending	_____	_____	_____	_____
Unacceptable	_____	_____	_____	_____

Data Reviewed by: Jeralyn Guthrie Date: 02/09/2004

Approved By:  Date: 2/13/2004

Area Code/Phone No.: (732) 225-6116

NARRATIVE

CASE No. 3154

SITE NAME: Cornell Dubilier Electronics Site

No. 126 Spicer Avenue, South Plainfield, New Jersey

Laboratory Name: Accutest Laboratories, 2235 Route 130, Dayton, New Jersey 08810.

INTRODUCTION:

The laboratory's portion of this Case consisted of twenty-four (44) soil samples collected on December 02, 2003.

The laboratory reported no problem(s) with the receipt of these samples.

The laboratory reported a Minor problem with the analyses of PCB parameters.

The evaluator has commented on the criteria specified under each fraction heading. All criteria have been assessed, but no discussion is given where the evaluator has determined that criteria were adequately performed or require no comment. Details relevant to these comments are given on the following forms.

Appropriate Form I's and Chain of Custody have been copied from the original data package and appended to the data assessment narrative for reference.

I. Pesticides/PCB:

Y Holding Times

Y Instrument Performance

Y Surrogate Recovery

Y MS/MSD

Y Compound ID

Y Chromatography

Y Initial and Continuing Calibration

Y Blanks

Y Retention Time Window

Y Analytical Sequence

Y RT Check for TCS and DCB

Comments:

1. Refer to Data Assessment Narrative.

CLP DATA ASSESSMENT

Functional Guidelines for Evaluating Organic Analysis

CASE # RFP#4229 SDG # N54554
LAB: Accutest Laboratories
SITE: Cornell Dubilier Electronics Site

The current Functional Guidelines for evaluating organic data have been applied.

All data are valid and acceptable except those analytes which have been qualified with a "J" (estimated), "N" (presumptive evidence for the presence of the material), "U" (non-detects), "R" (unusable), or "JN" (presumptive evidence for the presence of the material at an estimated value). All action is detailed on the attached sheets.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant QC problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Analytical data qualified as "JN" or "R" may not be used to demonstrate compliance with Toxicity Characteristic or Land Ban Regulations.

Reviewer's
Signature:

Jarlyn Luthria

Date: 02/09/2004

Verified By:

Adam Long

Date: 2/16/2004

CLP DATA ASSESSMENT

Client identification (ID) and laboratory ID numbers:

<u>Client ID No.</u>	<u>Laboratory ID No.</u>	<u>Matrix</u>
CDFF52A	N54554-1	Soil
CDFF49A	N54554-2	Soil
CDFF59A	N54554-3	Soil
CDFF60A	N54554-4	Soil
CDFF45A	N54554-5	Soil
CDFF44A	N54554-6	Soil
CDFF58A1**	N54554-7	Soil
CDFF46A	N54554-8	Soil
CDFF63A	N54554-9	Soil
CDFF53A	N54554-10	Soil
CDFF43A	N54554-11	Soil
CDFF47A	N54554-12	Soil
CDFF58A	N54554-13	Soil
CDFF53A1***	N54554-14	Soil
CDFF50A	N54554-15	Soil
CDFF51A	N54554-16	Soil
CDFF62A	N54554-17	Soil
CDFF61A	N54554-18	Soil
CDFF67C	N54554-19	Soil
CDFF57A	N54554-20	Soil
CDFF67D*	N54554-21	Soil
CDFF67B	N54554-22	Soil
CDFF41A*	N54554-23	Soil
CDFF64A	N54554-24	Soil
CDFF56A	N54554-25	Soil
CDFF48A*	N54554-26	Soil
CDFF54A	N54554-27	Soil
CDFF55A	N54554-28	Soil
CDFF66D	N54554-29	Soil
CDFF66C	N54554-30	Soil
CDFF66B	N54554-31	Soil
CDFF40A1****	N54554-32	Soil

* Samples also collected for MS/MSD.

** Sample CDFF58A1 is the Field Duplicate of Sample CDFF58A

*** Sample CDFF53A1 is the Field Duplicate of Sample CDFF53A

**** Sample CDFF40A1 is the Field Duplicate of Sample CDFF40A

Client identification (ID) and laboratory ID numbers (continued):

<u>Client ID No.</u>	<u>Laboratory ID No.</u>	<u>Matrix</u>
CDFF40A	N54554-33	Soil
CDFF42A	N54554-34	Soil
CDFF33A	N54554-35	Soil
CDFF34A	N54454-36	Soil
CDFF37A	N54554-37	Soil
CDFF36A	N54554-38	Soil
CDFF35A	N54554-39	Soil
CDFF65D	N54554-40	Soil
CDFF39A	N54554-41	Soil
CDFF38A	N54554-42	Soil
CDFF65C	N54554-43	Soil
CDFF65B	N54554-44	Soil

1. **HOLDING TIMES:**

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimated, "J". The non-detects (sample quantitation limits) will be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

The following analytes in the samples shown were qualified because of holding time:

TCL Data

PCBs - The following data were qualified as estimated "J" or rejected "R" due to exceeding holding time criteria:

<u>Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Extracted</u>	<u>VTSR at Lab</u>	<u>Date Analyzed</u>	<u>Qualifier</u>	<u># Compounds</u>
------------------	---------------	---------------------	-----------------------	--------------------	----------------------	------------------	--------------------

Data met QC criteria.

Note: Continuous extraction of water samples must be started within seven (7) days of the date of collection. Soil/Sediment/Solid samples must be extracted within ten (10) days of collection. Extracts must be analyzed within forty (40) days of extraction.

2. **BLANK CONTAMINATION:**

Quality Assurance (QA) blanks [i.e., method, trip, field or rinse blanks] are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Field and rinse blanks measure cross-contamination of samples during field operations. If the concentration of the analyte is less than 5 times the blank contaminant level (10 times for common contaminants), the analytes are qualified as non-detects, "U". The following analytes in the samples shown were qualified with "U" for these reasons:

A) **Method Blank Contamination**

PCBs - The following compounds were qualified as non-detected "U" in the associated samples due to method blank contamination:

<u>Compound</u>	<u>Associated Samples</u>
-----------------	---------------------------

Data met QC criteria.

- B) Field or Rinse Blank Contamination ("water blanks" or "distilled water blanks" are validated like any other sample)

PCBs - The following compounds were qualified as non-detected "U" in the associated samples due to rinse blank contamination:

<u>Compound</u>	<u>Associated Samples</u>
-----------------	---------------------------

No field blanks were included with these analyses.

3. MASS SPECTROMETER TUNING:

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds, and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The tuning standard for volatile organics is bromofluorobenzene (BFB) and for semi-volatiles is decafluorotriphenyl-phosphine (DFTPP).

If the mass calibration is in error or missing, all associated data will be classified as unusable "R". The following samples shown were qualified with "R" because of tuning:

No mass spectrometric determinations were required for these sample analyses.

4. CALIBRATION:

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument is giving satisfactory daily performance.

A) PERCENT RELATIVE STANDARD DEVIATION (%RSD) AND PERCENT DIFFERENCE (%D):

Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentration. Percent D compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be $< 30\%$ and %D must be $< 25\%$. A value outside of these QC limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J"; and non-detects are flagged "UJ". If %RSD and/or %D grossly exceed QC criteria, non-detect data may be qualified "R".

For the PESTICIDE/PCB fraction, if %RSD exceeds 20% for all analytes except for the 2 surrogates (which must not exceed 30% RSD), qualify all associated positive results "J" and non-detects "UJ".

The following analytes in the samples shown were qualified for %RSD and %D:

Initial Calibration

PCBs - The following compounds were qualified as estimated "J" or rejected "R" in the associated samples because the linearity criteria or the percent relative standard deviation (%RSD) of the Initial Calibration is $> 20\%$ for either one or both GC columns:

<u>Compound</u>	<u>Percent Recovery</u>	<u>Qualifier</u>	<u>Associated Sample(s)</u>
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Data met QC criteria.

4. CALIBRATION (continued):

Continuing Calibration

PCBs - The following data were not qualified as estimated "J" in the associated samples because the percent difference (%D) of the Continuing Calibration is just outside specified QC Limits:

<u>Fraction</u>	<u>Compound</u>	<u>Value exceeding QC Limits</u>	<u>Associated Sample(s)</u>
PCB for "signal #2"	AR1016 peak A	24.2 %D	CDFF48A, CDFF38A, CDFF65C, CDFF65B
PCB for "signal #2"	AR1016 peak D	21.2 %D	CDFF48A, CDFF38A, CDFF65C, CDFF65B

Note: The method-specified limit of < 15% D for PCB continuing calibration was exceeded for two of the five quantitation peaks for Aroclor 1016 in one continuing calibration standard on 12/6/2003. This occurred on only one of the two chromatographic columns (i.e., signal #2). No qualifiers are required since any positive results in the four samples, bracketed by this CCV, were quantitated using the other column (signal #1) that was within control limits.

5. SURROGATES/SYSTEM MONITORING COMPOUNDS (SMC):

All samples are spiked with surrogate/SMC compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. If the measured surrogate/SMC concentrations were outside contract specifications, qualifications were applied to the samples and analytes as shown below. The following analytes for the samples shown were qualified because of surrogate/SMC recovery:

PCBs - The following compounds were either qualified as estimated "J" or rejected "R" due to Tetrachloro-m-xylene (TCX) and Decachlorobiphenyl (DCB) surrogate recoveries are both outside specified advisory QC limits:

<u>Surrogate</u>	<u>Recovery</u>	<u>Qualifier</u>	<u>Compounds</u>	<u>Sample(s)</u>
Data met QC criteria.				

6. COMPOUND IDENTIFICATION:

A) PESTICIDE FRACTION:

The retention time of the reported compounds must fall within the calculated retention time windows for the two chromatographic columns and a GC/MS confirmation is required if the concentration exceeds 10 ng/ml in the final sample extract. The percent difference (%D) of the positive results obtained on the two GC columns should be $\leq 25\%$. The following analytes in the samples shown were qualified because of compound identification:

PCBs - The following detected compounds were qualified due to a percent difference (%D) between the primary and confirmation columns $> 25\%$:

<u>Compound</u>	<u>%D</u>	<u>Qualifier</u>	<u>Sample(s)</u>
Aroclor-1254	between 25-50%	"J"	CDFF49A, CDFF44A, CDFF58A1, CDFF63A, CDFF53A, CDFF43A, CDFF47A, CDFF58A, CDFF50A, CDFF62A, CDFF57A, CDFF64A, CDFF48A, CDFF55A, CDFF42A, CDFF33A, CDFF36A, CDFF39A, CDFF65C, CDFF65B
Aroclor-1260	between 25-50%	"J"	CDFF64A, CDFF55A, CDFF38A

Note: During the initial calibration sequence, absolute retention times are determined for all single response pesticides, the surrogates, and at least three major peaks of each multi-component analyte. Windows are centered around the mean absolute retention time for the analyte established during the initial calibration. Analytes are identified when peaks are observed in the retention time window for the compound on both GC columns. Comparison of the sample retention times to the retention time windows established during the initial calibration revealed that no additional pesticide compounds were detected in the associated samples. In addition, no shifts for surrogate compound retention times were noted to occur that might require consideration of compounds outside respective retention time windows.

A) PESTICIDE FRACTION (continued):

PCBs - Due to professional judgement, the lower of two positive values generated by the laboratory from the primary and confirmation column analyses was used to report final results for the following pesticide compounds:

<u>Compound</u>	<u>Primary Column Value</u>	<u>Confirmation Column Value</u>
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Note: The laboratory has consistently reported the higher of the two results from the two GC columns, unless a CCV recovery outlier indicated that one of the values was more appropriate to report. The RPD's between these results indicated acceptable precision, with the exceptions of those listed, and qualified, in the previous section. No further qualification or adjustments in the reported values were deemed necessary.

7. MATRIX SPIKE/SPIKE DUPLICATE, MS/MSD:

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices. The MS/MSD may be used in conjunction with other QC criteria for some additional qualification of the data. The following analytes, for the samples shown, were qualified because of MS/MSD:

The laboratory indicated in the case narrative that samples, CDFF41A (N54554-23), CDFF48A (N54554-26), and CDFF67D (N54554-21) were used as the originals to prepare the duplicate matrix spikes.

PCBs - The following sample data were either qualified as estimated "J" or rejected "R" due to exceeding duplicate spike recovery QC criteria:

<u>Original Sample</u>	<u>Spike Recovery</u>	<u>Qualifier</u>	<u>Compound(s)</u>
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No qualifiers are required based on high matrix spike recoveries for sample CDFF41A. No positive target compound results were reported in the original, unspiked sample. The other two sets of MS/MSD results were acceptable.

Note: The blank QC spike samples prepared undiluted and analyzed along with all three of the duplicate matrix spikes met all recovery and advisory accuracy criteria. In addition, the surrogate recovery results associated with the high matrix spike results were acceptable.

8. OTHER QC DATA OUT OF SPECIFICATION:

PCBs - The following compounds were qualified as estimated "J" in the associated aqueous and/or soil/sediment field duplicate samples because the Relative Percent Difference (RPD) between the sample and field duplicate sample is > 50% for aqueous samples, or > 100% for soil/sediment samples:

<u>Compound</u>	<u>Matrix</u>	<u>% RPD</u>	<u>Associated Field Duplicate Samples</u>
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Data met QC criteria.

Note: There were three sets of field duplicate pairs (CDFF40A / CDFF40A1, CDFF53A / CDFF53A1, and CDFF58A / CDFF58A1). The first pair listed had no target compounds detected and the other two pairs had Aroclor 1254 and Aroclor 1260 detected well within the RPD criteria.

The following soil/sediment/solid sample data (other than TCLP data) were either qualified as estimated "J" (% solids between 10-50%) or rejected "R" (% solids < 10%) because the sample contains more than 50% water:

<u>Fraction</u>	<u>Percent Solids</u>	<u>Qualifier</u>	<u># Compounds</u>	<u>Sample(s)</u>
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All %solids were > 50%.

The following compounds were qualified as estimated "J" in the indicated samples because the on-column amount of these compounds exceeded the instrument's analytical range as defined by the highest concentration level of the Initial Calibration Sequence:

<u>Fraction</u>	<u>Sample(s)</u>	<u>Compound(s)</u>
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No qualification required; laboratory reported from dilution analyses when necessary.

9. SYSTEM PERFORMANCE AND OVERALL ASSESSMENT:

Due to professional judgement, the following compounds were not transferred from the indicated dilution sample analyses to the undiluted sample analyses because the reported values of these compounds are either diluted out in the associated dilution sample analyses or are qualified as non-detected "U" due to blank contamination QC criteria:

<u>Fraction</u>	<u>Compound</u>	<u>Dilution Sample(s)</u>	<u>Dilution Factor</u>
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The analysis report forms (Form 1s), provided by the laboratory, already show only the appropriate and specific compound results, as required, from the dilution analyses. Footnotes were also included to indicate which results were reported from a second, dilution run.

Due to professional judgement, the following positive data were rejected "R" due to possible carryover from a previous sample analysis that contained the compound(s) at high concentration(s):

<u>Fraction</u>	<u>Sample Compound</u>	<u>Sample Compound Concentration</u>	<u>Previous Sample Compound Concentration</u>
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No data qualification.

10. CONTRACT PROBLEMS _____ NON-COMPLIANCE:

None.

11. This package contain re-extraction, re-analysis or dilution results. Upon reviewing the QA results, the following Form I(s) are identified to be used:

<u>PCB Fraction:</u>	<u>Use Sample(s)</u>	<u>Do Not Use Sample(s)</u>
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Dilution results were already incorporated into a single version of the Form 1.

Organics Results
Work Tables
and
Qualified Form 1's

OTHER ANALYTES WORK TABLE

PROJECT: CORNELL DUBILIER ELECTRONICS SITE

SAMPLING DATE: DECEMBER 2, 2003

SAMPLE #/CONCENTRATION (µg/Kg)

PCBs	Method Detection Limit	Soil CDFF52A N54554-1	Soil CDFF49A N54554-2	Soil CDFF59A N54554-3	Soil CDFF60A N54554-4
Low Concentration		16.7	20.7	25.1	23
Percent Moisture		1	1	1	1
Dilution Factor		1	1	1	1
Aroclor-1016	2.4	U	U	U	U
Aroclor-1221	5.1	U	U	U	U
Aroclor-1232	3.8	U	U	U	U
Aroclor-1242	2.9	U	U	U	U
Aroclor-1248	2.5	U	U	U	U
Aroclor-1254	1.6	336	543 J	357	1540 D
Aroclor-1260	2.9	98.7	193	115	366
dilution factor for cmpds. with "D" flag					2

U - non-detected compound

B - detected in the corresponding method blank

J - estimated value

JN - presumptive evidence of a compound

at an estimated value

R - rejected compound

D-result from dilution analysis

OTHER ANALYTES WORK TABLE

PROJECT: CORNELL DUBLIER ELECTRONICS SITE

SAMPLING DATE: DECEMBER 2, 2003

SAMPLE #/CONCENTRATION (µg/Kg)

PCBs	Method	Soil	Soil	Soil	Soil
Low Concentration	Detection	CDFF45A	CDFF44A	CDFF58A1	CDFF46A
Percent Moisture	Limit	N54554-5	N54554-6	N54554-7	N54554-8
Dilution Factor		21	23.1	24.4	25.8
Aroclor-1016	2.4	U	U	U	U
Aroclor-1221	5.1	U	U	U	U
Aroclor-1232	3.8	U	U	U	U
Aroclor-1242	2.9	U	U	U	U
Aroclor-1248	2.5	U	U	U	U
Aroclor-1254	1.6	224	325 J	204 J	1330 D
Aroclor-1260	2.9	86.9	141	73	457
dilution factor for cmpds. with "D" flag					2

U - non-detected compound

B - detected in the corresponding method blank

J - estimated value

JN - presumptive evidence of a compound
at an estimated value

R - rejected compound

D-result from dilution analysis

OTHER ANALYTES WORK TABLE

PROJECT: CORNELL DUBILIER ELECTRONICS SITE

SAMPLING DATE: DECEMBER 2, 2003

SAMPLE #/CONCENTRATION (µg/Kg)

PCBs	Method Detection Limit	Soil CDFF63A N54554-9	Soil CDFF53A N54554-10	Soil CDFF43A N54554-11	Soil CDFF47A N54554-12
Low Concentration					
Percent Moisture		24.1	22	25.3	21.8
Dilution Factor		1	1	1	1
Aroclor-1016	2.4	U	U	U	U
Aroclor-1221	5.1	U	U	U	U
Aroclor-1232	3.8	U	U	U	U
Aroclor-1242	2.9	U	U	U	U
Aroclor-1248	2.5	U	U	U	U
Aroclor-1254	1.6	140 J	285 J	303 J	88.6 J
Aroclor-1260	2.9	62	109	164	41.6

U - non-detected compound

B - detected in the corresponding method blank

J - estimated value

JN - presumptive evidence of a compound
at an estimated value

R - rejected compound

D-result from dilution analysis

OTHER ANALYTES WORK TABLE

PROJECT: CORNELL DUBILIER ELECTRONICS SITE

SAMPLING DATE: DECEMBER 2, 2003

SAMPLE #/CONCENTRATION (µg/Kg)

PCBs	Method	Soil	Soil	Soil	Soil
Low Concentration	Detection	CDFF58A	CDFF53A1	CDFF50A	CDFF51A
Percent Moisture	Limit	N54554-13	N54554-14	N54554-15	N54554-16
Dilution Factor		25	20.5	22.6	22.4
Aroclor-1016	2.4	U	U	U	U
Aroclor-1221	5.1	U	U	U	U
Aroclor-1232	3.8	U	U	U	U
Aroclor-1242	2.9	U	U	U	U
Aroclor-1248	2.5	U	U	U	U
Aroclor-1254	1.6	146 J	272	324 J	797
Aroclor-1260	2.9	54	97.7	124	240

U - non-detected compound

B - detected in the corresponding method blank

J - estimated value

JN - presumptive evidence of a compound
at an estimated value

R - rejected compound

D-result from dilution analysis

OTHER ANALYTES WORK TABLE

PROJECT: CORNELL DUBILIER ELECTRONICS SITE

SAMPLING DATE: DECEMBER 2, 2003

SAMPLE #/CONCENTRATION (µg/Kg)

PCBs	Method Detection Limit	Soil CDFF62A N54554-17	Soil CDFF61A N54554-18	Soil CDFF67C N54554-19	Soil CDFF57A N54554-20
Low Concentration					
Percent Moisture		25.5	20.4	14.9	26.3
Dilution Factor		1	1	1	1
Aroclor-1016	2.4	U	U	U	U
Aroclor-1221	5.1	U	U	U	U
Aroclor-1232	3.8	U	U	U	U
Aroclor-1242	2.9	U	U	U	U
Aroclor-1248	2.5	U	U	U	U
Aroclor-1254	1.6	346 J	323	322	283 J
Aroclor-1260	2.9	115	136	95	124

U - non-detected compound

B - detected in the corresponding method blank

J - estimated value

JN - presumptive evidence of a compound
at an estimated value

R - rejected compound

D-result from dilution analysis

OTHER ANALYTES WORK TABLE

PROJECT: CORNELL DUBILIER ELECTRONICS SITE

SAMPLING DATE: DECEMBER 2, 2003

SAMPLE #/CONCENTRATION (µg/Kg)

PCBs	Method Detection Limit	Soil CDFF67D N54554-21	Soil CDFF67B N54554-22	Soil CDFF41A N54554-23	Soil CDFF64A N54554-24	
Low Concentration						
Percent Moisture		20.2	12.6	21.6	23	
Dilution Factor		1	1	1	1	
Aroclor-1016	2.4	U	U	U	U	
Aroclor-1221	5.1	U	U	U	U	
Aroclor-1232	3.8	U	U	U	U	
Aroclor-1242	2.9	U	U	U	U	
Aroclor-1248	2.5	U	U	U	U	
Aroclor-1254	1.6	214	336	U	198	J
Aroclor-1260	2.9	57	109	U	91.3	J

U - non-detected compound

B - detected in the corresponding method blank

J - estimated value

JN - presumptive evidence of a compound
at an estimated value

R - rejected compound

D-result from dilution analysis

OTHER ANALYTES WORK TABLE

PROJECT: CORNELL DUBILIER ELECTRONICS SITE

SAMPLING DATE: DECEMBER 2, 2003

SAMPLE #/CONCENTRATION (µg/Kg)

PCBs	Method	Soil	Soil	Soil	Soil
Low Concentration	Detection	CDFF56A	CDFF48A	CDFF54A	CDFF55A
Percent Moisture	Limit	N54554-25	N54554-26	N54554-27	N54554-28
Dilution Factor		22.7	23.6	23.8	24.8
		1	1	1	1
Aroclor-1016	2.4	U	U	U	U
Aroclor-1221	5.1	U	U	U	U
Aroclor-1232	3.8	U	U	U	U
Aroclor-1242	2.9	U	U	U	U
Aroclor-1248	2.5	U	U	U	U
Aroclor-1254	1.6	251	75.3 J	267	180 J
Aroclor-1260	2.9	134	31.3	147	94.2 J

U - non-detected compound

B - detected in the corresponding method blank

J - estimated value

JN - presumptive evidence of a compound
at an estimated value

R - rejected compound

D-result from dilution analysis

OTHER ANALYTES WORK TABLE

PROJECT: CORNELL DUBILIER ELECTRONICS SITE

SAMPLING DATE: DECEMBER 2, 2003

SAMPLE #/CONCENTRATION (µg/Kg)

PCBs	Method Detection Limit	Soil CDFF66D N54554-29	Soil CDFF66C N54554-30	Soil CDFF66B N54554-31	Soil CDFF40A1 N54554-32
Low Concentration					
Percent Moisture		19.2	16.8	18.1	20.9
Dilution Factor		1	1	1	1
Aroclor-1016	2.4	U	U	U	U
Aroclor-1221	5.1	U	U	U	U
Aroclor-1232	3.8	U	U	U	U
Aroclor-1242	2.9	U	U	U	U
Aroclor-1248	2.5	U	U	U	U
Aroclor-1254	1.6	124	454	1860	D
Aroclor-1260	2.9	41.7	165	625	U
dilution factor for cmpds. with "D" flag				4	

U - non-detected compound

B - detected in the corresponding method blank

J - estimated value

JN - presumptive evidence of a compound
at an estimated value

R - rejected compound

D-result from dilution analysis

OTHER ANALYTES WORK TABLE

PROJECT: CORNELL DUBILIER ELECTRONICS SITE

SAMPLING DATE: DECEMBER 2, 2003

SAMPLE #/CONCENTRATION (µg/Kg)

PCBs	Method Detection Limit	Soil CDFF40A N54554-33	Soil CDFF42A N54554-34	Soil CDFF33A N54554-35	Soil CDFF34A N54554-36
Low Concentration					
Percent Moisture		22.7	23.1	20.2	22.9
Dilution Factor		1	1	1	1
Aroclor-1016	2.4	U	U	U	U
Aroclor-1221	5.1	U	U	U	U
Aroclor-1232	3.8	U	U	U	U
Aroclor-1242	2.9	U	U	U	U
Aroclor-1248	2.5	U	U	U	U
Aroclor-1254	1.6	U	457 J	264 J	485
Aroclor-1260	2.9	U	138	96.3	180

U - non-detected compound

B - detected in the corresponding method blank

J - estimated value

JN - presumptive evidence of a compound
at an estimated value

R - rejected compound

D-result from dilution analysis

OTHER ANALYTES WORK TABLE

PROJECT: CORNELL DUBILIER ELECTRONICS SITE

SAMPLING DATE: DECEMBER 2, 2003

SAMPLE #/CONCENTRATION (µg/Kg)

PCBs	Method Detection	Soil CDFF37A	Soil CDFF36A	Soil CDFF35A	Soil CDFF65D
Low Concentration	Limit	N54554-37	N54554-38	N54554-39	N54554-40
Percent Moisture		24.1	29.4	25.1	13.9
Dilution Factor		1	1	1	1
Aroclor-1016	2.4	U	U	U	U
Aroclor-1221	5.1	U	U	U	U
Aroclor-1232	3.8	U	U	U	U
Aroclor-1242	2.9	U	U	U	U
Aroclor-1248	2.5	U	U	U	U
Aroclor-1254	1.6	664	468 J	652	112
Aroclor-1260	2.9	217	142	209	U

U - non-detected compound

B - detected in the corresponding method blank

J - estimated value

JN - presumptive evidence of a compound
at an estimated value

R - rejected compound

D-result from dilution analysis

OTHER ANALYTES WORK TABLE

PROJECT: CORNELL DUBILIER ELECTRONICS SITE

SAMPLING DATE: DECEMBER 2, 2003

SAMPLE #/CONCENTRATION (µg/Kg)

PCBs	Method Detection Limit	Soil CDFF39A N54554-41	Soil CDFF38A N54554-42	Soil CDFF65C N54554-43	Soil CDFF65B N54554-44
Low Concentration					
Percent Moisture		21.1	29.4	17.1	17.8
Dilution Factor		1	1	1	1
Aroclor-1016	2.4	U	U	U	U
Aroclor-1221	5.1	U	U	U	U
Aroclor-1232	3.8	U	U	U	U
Aroclor-1242	2.9	U	U	U	U
Aroclor-1248	2.5	U	U	U	U
Aroclor-1254	1.6	296 J	884	142 J	293 J
Aroclor-1260	2.9	182	171 J	44.6	79.2

U - non-detected compound

B - detected in the corresponding method blank

J - estimated value

JN - presumptive evidence of a compound
at an estimated value

R - rejected compound

D-result from dilution analysis

Chain of Custody Records
and
Laboratory Case Narrative

SDG Narrative
Accutest Laboratories
Job #N54554

(ORGANIC FRACTION)

The samples in this SDG were received at Accutest Laboratories for analysis by SW846 8082 for PCB methodology.

All samples were analyzed within holding times.

GC Semi-volatile Fraction:

- Instrument Model: HP5890/dual ECD
- Column: DB-5 30m x 0.32mm x 0.25um/DB-1701 30m x 0.32mm x 0.25um
- There are no anomalies to report.
- Samples N54554-4, -8, and -31 were diluted further because certain compounds in the original runs were outside of the calibration range.
- Samples N54554-26 (OP15539), N54554-23 (OP15535) and N54554-21 (OP15534) were used as the matrix spike (MS) and matrix spike duplicates (MSD).
- In the OP15535-MS/MSD, recoveries for Aroclor 1016 and Aroclor 1260 are outside control limits due to possible matrix interference. Refer to batch associated blank spike.

(INORGANIC FRACTION)

On the general chemistry fraction:

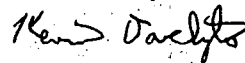
- The samples were analyzed for general chemistry parameters following the methodologies in this data package.
- All samples were analyzed within holding time.
- Matrix spike (MS) and duplicates (DUP) are not analyzed by this procedure.

Qualifiers possibly reported on the target compound list for all fractions:

- “ND” indicating compound was analyzed but not detected,
- “J” indicating estimated value where the concentration is less than the reporting limit,
- “E” indicating estimated value where the concentration exceeds calibration range, and
- “B” indicating compound is found in associated method blank as well as in the sample.

I certify that that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package and in the computer-readable data submitted on diskette, has been authorized by the laboratory manager or his designee, as verified by the following signature.

Kevin Dovedytis



Report Generation Technician

CHAIN OF CUSTODY RECORD



Removal Support Team

EPA Contract 68-W-00-113

Phone: (732) 225-6116 Fax: (732) 225-7037

1. Surface	1. HCL
2. Ground water	2. HNO ₃
3. Leachate	3. Na ₂ SO ₄
4. Rinse	4. H ₂ SO ₄
5. Soil/Sediment	5 Other (specify)
6. Oil	6. Ice Only
7. Waste	7. Not preserved
8. Other	See Comments
(Specify)	

Send verbal and written results to:

Weston Solutions, Inc.

Suite 201, 1090 King Georges Post Road, Edison, NJ 08837-3703

Attention: Smita Sumbaly, RST Analytical Coordinator

Sample Number	Sample Chain of Custody	Sample ID	Sample Type	Sample Size	Sample Weight	Sample Volume	Sample Temp	Sample Date	Sample Time	Sample Location	Sample Status	Sample Notes
CDFFS2A	17463 / 351	S	L	G	6							
CDFF491A	1 / 347											
CDFF591A	1 / 347											
CDFF60A	1 / 254											
CDFF45A	1 / 249											
CDFF44A	1 / 257											
CDFF48A	1 / 405											
CDFF46A	1 / 243											
CDFF63A	1 / 428											
CDFF53A	1 / 344											
CDFF43A	1 / 236											

Comments:

2.4°

Person Assuming Responsibility for Samples:

Time/Date:

Sample Number:	Relinquished by:	Time:	Date:	Received by:	Reason for Change of Custody:
111	Dean M...	1005	12/5/03	[Signature]	
Sample Number:	Relinquished by:	Time:	Date:	Received by:	Reason for Change of Custody:
Sample Number:	Relinquished by:	Time:	Date:	Received by:	Reason for Change of Custody:

Weston Solutions, Inc.
FEDERAL PROGRAMS DIVISION

In Association with Scientific and Environmental Associates, Inc., Resource Applications, Inc., and Innovative Technological Solutions, Inc.

CHAIN OF CUSTODY RECORD

N54554 reverse

4229



Removal Support Team

EPA Contract 68-W-00-113

Phone: (732) 225-6116 Fax: (732) 225-7037

1. Surface	1. HCL
2. Ground water	2. HNO ₃
3. Leachate	3. Na ₂ SO ₄
4. Rinse	4. H ₂ SO ₄
5. Soil/Sediment	5. Other (specify)
6. Oil	6. Ice Only
7. Waste	7. Not preserved
8. Other (Specify)	8. See Comments

Send verbal and written results to:

Weston Solutions, Inc.
 Suite 201, 1090 King Georges Post Road, Edison, NJ 08837-3705
 Attention: Smita Sumbati, RST Analytical Coordinator

Sample Number	Sample Collection Method/Type	Project Name	Site ID	Sample ID	Sample Point	VOL	SR	TEST	PCB	TAL	CH	ICH	OR	ALAC	OTHER
CDFF47A	12/63 1430	5	L	G	6				X						
CDFF55A	1407								X						
CDFF53A	1341								X						
CDFF52A	1354								X						
CDFF51A	1359								X						
CDFF62A	1402								X						
CDFF61A	1353								X						
CDFF67C	1456								X						
CDFF57A	1411								X						
*CDFF61D	1501								X						
CDFF67B	1452								X						

Comments:

* Use for MS/MSD

Person Assuming Responsibility for Samples:

Time/Date:

Sample Number:	Relinquished by:	Time:	Date:	Received by:	Reason for Change of Custody:
111	Dea Mazer	1005	12/3/03	[Signature]	
Sample Number:	Relinquished by:	Time:	Date:	Received by:	Reason for Change of Custody:
Sample Number:	Relinquished by:	Time:	Date:	Received by:	Reason for Change of Custody:

Weston Solutions, Inc.

FEDERAL PROGRAMS DIVISION

In Association with Scientific and Environmental Associates, Inc., Resource Applications, Inc., and Innovative Technological Solutions, Inc.

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CHAIN OF CUSTODY RECORD



Removal Support Team

EPA Contract 68-W-00-113

Phone: (732) 225-6116 Fax: (732) 225-7037

N54554 revised

1. Surface	1. HCL
2. Ground water	2. HNO ₃
3. Leachate	3. Na ₂ SO ₄
4. Rinse	4. H ₂ SO ₄
5. Solid/Sediment	5. Other (specify)
6. Oil	6. Ice Only
7. Waste	7. Not preserved
8. Other (Specify)	*See Comments

Send verbal and written results to:

Weston Solutions, Inc.
 Suite 201, 1090 King Georges Post Road, Edison, NJ 08837-3703
 Attention: Smita Sumbaty, RST Analytical Coordinator

Sample Number	Sample Description and Time	Sample Matrix	Chain of Custody Initials	Test Type	Test Result	VOL	EPA	POST	PCB	PAH	GH	WH	COB	SPIC	OTHER
*CDFF41H	12/2/03 1222	5	L	G	6				X						
CDFF64A	1413								X						
CDFF56A	1416								X						
*CDFF48A	1424								X						
CDFF54A	1419								X						
CDFF55A	1428								X						
CDFF66D	1444								X						
CDFF66K	1440								X						
CDFF66B	1437								X						
CDFF40M	1217								X						
CDFF48A	1215	N	+	+	+				X						

Comments:

* Should be sample # CDFF40A (D. Mann)
 * Use for MS/MSD

Person Assuming Responsibility for Samples:

Time/Date:

Sample Number: H11	Relinquished by: Denn Mann	Time: 1005	Date: 12/5/13	Received by:	Reason for Change of Custody:
Sample Number:	Relinquished by:	Time:	Date:	Received by:	Reason for Change of Custody:
Sample Number:	Relinquished by:	Time:	Date:	Received by:	Reason for Change of Custody:

Weston Solutions, Inc.

FEDERAL PROGRAMS DIVISION

In Association with Scientific and Environmental Associates, Inc., Resource Applications, Inc., and Innovative Technological Solutions, Inc.

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CHAIN OF CUSTODY RECORD



Removal Support Team

EPA Contract 68-W-00-113

Phone: (732) 225-6116 Fax: (732) 225-7037

N54554 revised

1. Surface	1. HCL
2. Ground water	2. HNO ₃
3. Leachate	3. Na ₂ SO ₄
4. Rinseate	4. H ₂ SO ₄
5. Soil/Sediment	5 Other (specify)
6. Oil	6. Ice Only
7. Waste	N. Not preserved
8. Other (specify)	*See Comments

Send verbal and written results to:

Weston Solutions, Inc.
 Suite 201, 1090 King Georges Post Road, Edison, NJ 08837-3703
 Attention: Smita Sumbaly, RST Analytical Coordinator

Sample Number	Sample Collection Method	Sample Date	Time	Lab Temp	Sample Type	Sample Matrix	VOL	BA	PLAT	PCB	ML	GP	ICM	COE	REDO	OTHER
CDEF42A	12/2/03	12:30	5	L	G	L				X						
CDEF33A		11:06								X						
CDEF34A		11:00								X						
CDEF37A		11:35								X						
CDEF36A		11:23								X						
CDEF35A		11:14								X						
CDEF65D		15:23								X						
CDEF39A		12:00								X						
CDEF38A		11:53								X						
CDEF65C		15:18								X						
CDEF65D		15:10								X						

Comments:

Person Assuming Responsibility for Samples:

Time/Date:

Sample Number:	Relinquished by:	Time:	Date:	Received by:	Reason for Change of Custody:
ALL	Dean Mason	1005	12/5/03		
Sample Number:	Relinquished by:	Time:	Date:	Received by:	Reason for Change of Custody:
Sample Number:	Relinquished by:	Time:	Date:	Received by:	Reason for Change of Custody:

Weston Solutions, Inc.

FEDERAL PROGRAMS DIVISION

In Association with Scientific and Environmental Associates, Inc., Resource Applications, Inc., and Innovative Technological Solutions, Inc.

Report of Analysis

Client Sample ID:	CDF52A	Date Sampled:	12/02/03
Lab Sample ID:	N54554-1	Date Received:	12/03/03
Matrix:	SO - Soil	Percent Solids:	83.3
Method:	SW846 8082 SW846 3550B		
Project:	RFP# 4229		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47967.D	1	12/09/03	OYA	12/03/03	OP15534	GEF2410
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	20	2.8	ug/kg	
11104-28-2	Aroclor 1221	ND	20	6.0	ug/kg	
11141-16-5	Aroclor 1232	ND	20	4.5	ug/kg	
53469-21-9	Aroclor 1242	ND	20	3.4	ug/kg	
12672-29-6	Aroclor 1248	ND	20	3.0	ug/kg	
11097-69-1	Aroclor 1254	336	20	1.9	ug/kg	
11096-82-5	Aroclor 1260	98.7	20	3.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	87%		26-142%
877-09-8	Tetrachloro-m-xylene	90%		26-142%
2051-24-3	Decachlorobiphenyl	95%		32-153%
2051-24-3	Decachlorobiphenyl	91%		32-153%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDFF52A
Lab Sample ID: N54554-1
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 83.3

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	83.3		%	1	12/04/03	TC	EPA 160.3 M

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CDFF49A	Date Sampled:	12/02/03
Lab Sample ID:	N54554-2	Date Received:	12/03/03
Matrix:	SO - Soil	Percent Solids:	79.3
Method:	SW846 8082 SW846 3550B		
Project:	RFP# 4229		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47968.D	1	12/09/03	OYA	12/03/03	OP15534	GEF2410
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.0	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.3	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.8	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.6	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.2	ug/kg	
11097-69-1	Aroclor 1254	543	21	2.0	ug/kg	5
11096-82-5	Aroclor 1260	193	21	3.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	85%		26-142%
877-09-8	Tetrachloro-m-xylene	90%		26-142%
2051-24-3	Decachlorobiphenyl	94%		32-153%
2051-24-3	Decachlorobiphenyl	95%		32-153%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDFF49A
Lab Sample ID: N54554-2
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 79.3

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	79.3		%	1	12/04/03	TC	EPA 160.3 M

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CDFF59A	Date Sampled:	12/02/03
Lab Sample ID:	N54554-3	Date Received:	12/03/03
Matrix:	SO - Soil	Percent Solids:	74.9
Method:	SW846 8082 SW846 3550B		
Project:	RFP# 4229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47969.D	1	12/09/03	OYA	12/03/03	OP15534	GEF2410
Run #2							

	Initial Weight	Final Volume
Run #1	30.6 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	22	3.1	ug/kg	
11104-28-2	Aroclor 1221	ND	22	6.6	ug/kg	
11141-16-5	Aroclor 1232	ND	22	5.0	ug/kg	
53469-21-9	Aroclor 1242	ND	22	3.8	ug/kg	
12672-29-6	Aroclor 1248	ND	22	3.3	ug/kg	
11097-69-1	Aroclor 1254	357	22	2.1	ug/kg	
11096-82-5	Aroclor 1260	115	22	3.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	82%		26-142%
877-09-8	Tetrachloro-m-xylene	86%		26-142%
2051-24-3	Decachlorobiphenyl	94%		32-153%
2051-24-3	Decachlorobiphenyl	95%		32-153%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDFF59A
Lab Sample ID: N54554-3
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 74.9

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	74.9		%	1	12/04/03	TC	EPA 160.3 M

Report of Analysis

Client Sample ID:	CDF60A	Date Sampled:	12/02/03
Lab Sample ID:	N54554-4	Date Received:	12/03/03
Matrix:	SO - Soil	Percent Solids:	77.0
Method:	SW846 8082 SW846-3550B		
Project:	RFP# 4229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47970.D	1	12/09/03	OYA	12/03/03	OP15534	GEF2410
Run #2	EF47986.D	2	12/10/03	OYA	12/03/03	OP15534	GEF2410

	Initial Weight	Final Volume
Run #1	30.1 g	10.0 ml
Run #2	30.1 g	10.0 ml

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	22	3.1	ug/kg	
11104-28-2	Aroclor 1221	ND	22	6.6	ug/kg	
11141-16-5	Aroclor 1232	ND	22	4.9	ug/kg	
53469-21-9	Aroclor 1242	ND	22	3.7	ug/kg	
12672-29-6	Aroclor 1248	ND	22	3.3	ug/kg	
11097-69-1	Aroclor 1254	1540 ^a	43	4.2	ug/kg	Ⓚ
11096-82-5	Aroclor 1260	366	22	3.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	83%	86%	26-142%
877-09-8	Tetrachloro-m-xylene	88%	88%	26-142%
2051-24-3	Decachlorobiphenyl	97%	116%	32-153%
2051-24-3	Decachlorobiphenyl	101%	109%	32-153%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDFF60A
Lab Sample ID: N54554-4
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 77.0

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	77		%	1	12/04/03	TC	EPA 160.3 M

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CDF45A	Date Sampled:	12/02/03
Lab Sample ID:	N54554-5	Date Received:	12/03/03
Matrix:	SO - Soil	Percent Solids:	79.0
Method:	SW846 8082 SW846 3550B		
Project:	RFP# 4229		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47971.D	1	12/09/03	OYA	12/03/03	OP15534	GEF2410
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.0	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.4	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.8	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.6	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.2	ug/kg	
11097-69-1	Aroclor 1254	224	21	2.1	ug/kg	
11096-82-5	Aroclor 1260	86.9	21	3.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	83%		26-142%
877-09-8	Tetrachloro-m-xylene	84%		26-142%
2051-24-3	Decachlorobiphenyl	88%		32-153%
2051-24-3	Decachlorobiphenyl	98%		32-153%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDFF45A
Lab Sample ID: N54554-5
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 79.0

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	79		%	1	12/04/03	TC	EPA 160.3 M

Report of Analysis

Client Sample ID:	CDF44A	Date Sampled:	12/02/03
Lab Sample ID:	N54554-6	Date Received:	12/03/03
Matrix:	SO - Soil	Percent Solids:	76.9
Method:	SW846 8082 SW846 3550B		
Project:	RFP# 4229		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47974.D	1	12/10/03	OYA	12/03/03	OP15534	GEF2410
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.6 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.0	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.5	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.8	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.7	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.2	ug/kg	
11097-69-1	Aroclor 1254	325	21	2.1	ug/kg	J
11096-82-5	Aroclor 1260	141	21	3.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	85%		26-142%
877-09-8	Tetrachloro-m-xylene	87%		26-142%
2051-24-3	Decachlorobiphenyl	100%		32-153%
2051-24-3	Decachlorobiphenyl	98%		32-153%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDFF44A
Lab Sample ID: N54554-6
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 76.9

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	76.9		%	1	12/04/03	TC	EPA 160.3 M

Report of Analysis

Client Sample ID:	CDF58A1	Date Sampled:	12/02/03
Lab Sample ID:	N54554-7	Date Received:	12/03/03
Matrix:	SO - Soil	Percent Solids:	75.6
Method:	SW846 8082 SW846 3550B		
Project:	RFP# 4229		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47975.D	1	12/10/03	OYA	12/03/03	OP15534	GEF2410
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	22	3.2	ug/kg	
11104-28-2	Aroclor 1221	ND	22	6.7	ug/kg	
11141-16-5	Aroclor 1232	ND	22	5.0	ug/kg	
53469-21-9	Aroclor 1242	ND	22	3.8	ug/kg	
12672-29-6	Aroclor 1248	ND	22	3.3	ug/kg	
11097-69-1	Aroclor 1254	204	22	2.2	ug/kg	J
11096-82-5	Aroclor 1260	73.0	22	3.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	87%		26-142%
877-09-8	Tetrachloro-m-xylene	89%		26-142%
2051-24-3	Decachlorobiphenyl	101%		32-153%
2051-24-3	Decachlorobiphenyl	100%		32-153%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDFF58A1
Lab Sample ID: N54554-7
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 75.6

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	75.6		%	1	12/04/03	TC	EPA 160.3 M

Report of Analysis

Client Sample ID:	CDFF46A	Date Sampled:	12/02/03
Lab Sample ID:	N54554-8	Date Received:	12/03/03
Matrix:	SO - Soil	Percent Solids:	74.2
Method:	SW846 8082 SW846 3550B		
Project:	RFP# 4229		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47976.D	1	12/10/03	OYA	12/03/03	OP15534	GEF2410
Run #2	EF47987.D	2	12/10/03	OYA	12/03/03	OP15534	GEF2410

Run #	Initial Weight	Final Volume
Run #1	30.7 g	10.0 ml
Run #2	30.7 g	10.0 ml

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	22	3.1	ug/kg	
11104-28-2	Aroclor 1221	ND	22	6.7	ug/kg	
11141-16-5	Aroclor 1232	ND	22	5.0	ug/kg	
53469-21-9	Aroclor 1242	ND	22	3.8	ug/kg	
12672-29-6	Aroclor 1248	ND	22	3.3	ug/kg	
11097-69-1	Aroclor 1254	1330 ^a	44	4.3	ug/kg	(D)
11096-82-5	Aroclor 1260	457	22	3.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	81%	83%	26-142%
877-09-8	Tetrachloro-m-xylene	88%	92%	26-142%
2051-24-3	Decachlorobiphenyl	92%	108%	32-153%
2051-24-3	Decachlorobiphenyl	83%	99%	32-153%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDFF46A

Lab Sample ID: N54554-8

Matrix: SO - Soil

Project: RFP# 4229

Date Sampled: 12/02/03

Date Received: 12/03/03

Percent Solids: 74.2

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	74.2		%	1	12/04/03	TC	EPA 160.3 M

Report of Analysis

Client Sample ID:	CDF63A	Date Sampled:	12/02/03
Lab Sample ID:	N54554-9	Date Received:	12/03/03
Matrix:	SO - Soil	Percent Solids:	75.9
Method:	SW846 8082 SW846 3550B		
Project:	RFP# 4229		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	EF47988.D	1	12/10/03	OYA	12/03/03	OP15534	GEF2410

Run #1	Initial Weight	Final Volume
Run #2	30.8 g	10.0 ml

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.1	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.5	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.9	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.7	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.2	ug/kg	
11097-69-1	Aroclor 1254	140	21	2.1	ug/kg	3
11096-82-5	Aroclor 1260	62.0	21	3.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	85%		26-142%
877-09-8	Tetrachloro-m-xylene	87%		26-142%
2051-24-3	Decachlorobiphenyl	101%		32-153%
2051-24-3	Decachlorobiphenyl	96%		32-153%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDFF63A
Lab Sample ID: N54554-9
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 75.9

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	75.9		%	1	12/04/03	TC	EPA 160.3 M

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CDFF53A	Date Sampled:	12/02/03
Lab Sample ID:	N54554-10	Date Received:	12/03/03
Matrix:	SO - Soil	Percent Solids:	78.0
Method:	SW846 8082 SW846 3550B		
Project:	RFP# 4229		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47989.D	1	12/10/03	OYA	12/03/03	OP15534	GEF2410
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.1	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.5	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.9	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.7	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.2	ug/kg	
11097-69-1	Aroclor 1254	285	21	2.1	ug/kg	
11096-82-5	Aroclor 1260	109	21	3.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	80%		26-142%
877-09-8	Tetrachloro-m-xylene	88%		26-142%
2051-24-3	Decachlorobiphenyl	92%		32-153%
2051-24-3	Decachlorobiphenyl	92%		32-153%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDF53A

Lab Sample ID: N54554-10

Matrix: SO - Soil

Project: RFP# 4229

Date Sampled: 12/02/03

Date Received: 12/03/03

Percent Solids: 78.0

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	78		%	1	12/04/03	TC	EPA 160.3 M

Report of Analysis

Client Sample ID:	CDFF43A	Date Sampled:	12/02/03
Lab Sample ID:	N54554-11	Date Received:	12/03/03
Matrix:	SO - Soil	Percent Solids:	74.7
Method:	SW846 8082 SW846 3550B		
Project:	RFP# 4229		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47990.D	1	12/10/03	OYA	12/03/03	OP15534	GEF2410
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.6 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	22	3.1	ug/kg	
11104-28-2	Aroclor 1221	ND	22	6.6	ug/kg	
11141-16-5	Aroclor 1232	ND	22	5.0	ug/kg	
53469-21-9	Aroclor 1242	ND	22	3.8	ug/kg	
12672-29-6	Aroclor 1248	ND	22	3.3	ug/kg	
11097-69-1	Aroclor 1254	303	22	2.1	ug/kg	3
11096-82-5	Aroclor 1260	164	22	3.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	66%		26-142%
877-09-8	Tetrachloro-m-xylene	81%		26-142%
2051-24-3	Decachlorobiphenyl	85%		32-153%
2051-24-3	Decachlorobiphenyl	84%		32-153%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

MDL - Method Detection Limit

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDFF43A
Lab Sample ID: N54554-11
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 74.7

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	74.7		%	1	12/04/03	TC	EPA 160.3 M

Report of Analysis

Client Sample ID: CDFF47A	Date Sampled: 12/02/03
Lab Sample ID: N54554-12	Date Received: 12/03/03
Matrix: SO - Soil	Percent Solids: 78.2
Method: SW846 8082 SW846 3550B	
Project: RFP# 4229	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF48063.D	1	12/12/03	OYA	12/03/03	OP15534	GEF2413
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.1	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.5	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.9	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.7	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.2	ug/kg	
11097-69-1	Aroclor 1254	88.6	21	2.1	ug/kg	J
11096-82-5	Aroclor 1260	41.6	21	3.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	83%		26-142%
877-09-8	Tetrachloro-m-xylene	80%		26-142%
2051-24-3	Decachlorobiphenyl	98%		32-153%
2051-24-3	Decachlorobiphenyl	94%		32-153%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CDFF47A	Date Sampled:	12/02/03
Lab Sample ID:	N54554-12	Date Received:	12/03/03
Matrix:	SO - Soil	Percent Solids:	78.2
Project:	RFP# 4229		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	78.2		%	1	12/04/03	TC	EPA 160.3 M

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CDF58A	Date Sampled:	12/02/03
Lab Sample ID:	N54554-13	Date Received:	12/03/03
Matrix:	SO - Soil	Percent Solids:	75.0
Method:	SW846 8082 SW846 3550B		
Project:	RFP# 4229		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF48064.D	1	12/12/03	OYA	12/03/03	OP15534	GEF2413
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.5 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	22	3.1	ug/kg	
11104-28-2	Aroclor 1221	ND	22	6.6	ug/kg	
11141-16-5	Aroclor 1232	ND	22	5.0	ug/kg	
53469-21-9	Aroclor 1242	ND	22	3.8	ug/kg	
12672-29-6	Aroclor 1248	ND	22	3.3	ug/kg	
11097-69-1	Aroclor 1254	146	22	2.1	ug/kg	5
11096-82-5	Aroclor 1260	54.0	22	3.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	84%		26-142%
877-09-8	Tetrachloro-m-xylene	82%		26-142%
2051-24-3	Decachlorobiphenyl	101%		32-153%
2051-24-3	Decachlorobiphenyl	96%		32-153%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDF58A
Lab Sample ID: N54554-13
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 75.0

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	75		%	1	12/04/03	TC	EPA 160.3 M

Report of Analysis

Client Sample ID:	CDF53A1	Date Sampled:	12/02/03
Lab Sample ID:	N54554-14	Date Received:	12/03/03
Matrix:	SO - Soil	Percent Solids:	79.5
Method:	SW846 8082 SW846 3550B		
Project:	RFP# 4229		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF48065.D	1	12/12/03	OYA	12/03/03	OP15534	GEF2413
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.0	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.4	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.8	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.6	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.2	ug/kg	
11097-69-1	Aroclor 1254	272	21	2.0	ug/kg	
11096-82-5	Aroclor 1260	97.7	21	3.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	74%		26-142%
877-09-8	Tetrachloro-m-xylene	81%		26-142%
2051-24-3	Decachlorobiphenyl	93%		32-153%
2051-24-3	Decachlorobiphenyl	87%		32-153%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDFF53A1

Lab Sample ID: N54554-14

Matrix: SO - Soil

Project: RFP# 4229

Date Sampled: 12/02/03

Date Received: 12/03/03

Percent Solids: 79.5

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	79.5		%	1	12/04/03	TC	EPA 160.3 M

02/06/04

Report of Analysis

Client Sample ID:	CDFF50A	Date Sampled:	12/02/03
Lab Sample ID:	N54554-15	Date Received:	12/03/03
Matrix:	SO - Soil	Percent Solids:	77.4
Method:	SW846 8082 SW846 3550B		
Project:	RFP# 4229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF48066.D	1	12/12/03	OYA	12/03/03	OP15534	GEF2413
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.0	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.5	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.8	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.7	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.2	ug/kg	
11097-69-1	Aroclor 1254	324	21	2.1	ug/kg	J
11096-82-5	Aroclor 1260	124	21	3.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	87%		26-142%
877-09-8	Tetrachloro-m-xylene	83%		26-142%
2051-24-3	Decachlorobiphenyl	98%		32-153%
2051-24-3	Decachlorobiphenyl	93%		32-153%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDF50A
Lab Sample ID: N54554-15
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 77.4

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	77.4		%	1	12/04/03	TC	EPA 160.3 M

Report of Analysis

Client Sample ID:	CDF51A	Date Sampled:	12/02/03
Lab Sample ID:	N54554-16	Date Received:	12/03/03
Matrix:	SO - Soil	Percent Solids:	77.6
Method:	SW846 8082 SW846 3550B		
Project:	RFP# 4229		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF48067.D	1	12/12/03	OYA	12/03/03	OP15534	GEF2413
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.6 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.0	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.4	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.8	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.6	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.2	ug/kg	
11097-69-1	Aroclor 1254	797	21	2.1	ug/kg	
11096-82-5	Aroclor 1260	240	21	3.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	77%		26-142%
877-09-8	Tetrachloro-m-xylene	85%		26-142%
2051-24-3	Decachlorobiphenyl	98%		32-153%
2051-24-3	Decachlorobiphenyl	94%		32-153%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method link
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDFF51A
Lab Sample ID: N54554-16
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 77.6

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	77.6		%	1	12/04/03	TC	EPA 160.3 M

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID:	CDFF62A	Date Sampled:	12/02/03
Lab Sample ID:	N54554-17	Date Received:	12/03/03
Matrix:	SO - Soil	Percent Solids:	74.5
Method:	SW846 8082 SW846 3550B		
Project:	RFP# 4229		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF48070.D	1	12/13/03	OYA	12/03/03	OP15534	GEF2413
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	22	3.2	ug/kg	
11104-28-2	Aroclor 1221	ND	22	6.8	ug/kg	
11141-16-5	Aroclor 1232	ND	22	5.1	ug/kg	
53469-21-9	Aroclor 1242	ND	22	3.9	ug/kg	
12672-29-6	Aroclor 1248	ND	22	3.4	ug/kg	
11097-69-1	Aroclor 1254	346	22	2.2	ug/kg	
11096-82-5	Aroclor 1260	115	22	4.0	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	84%		26-142%
877-09-8	Tetrachloro-m-xylene	90%		26-142%
2051-24-3	Decachlorobiphenyl	104%		32-153%
2051-24-3	Decachlorobiphenyl	102%		32-153%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

02/06/04

Report of Analysis

Client Sample ID: CDF62A

Lab Sample ID: N54554-17

Matrix: SO - Soil

Project: RFP# 4229

Date Sampled: 12/02/03

Date Received: 12/03/03

Percent Solids: 74.5

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	74.5		%	1	12/04/03	TC	EPA 160.3 M

Report of Analysis

Page 1 of 1

Client Sample ID:	CDF61A	Date Sampled:	12/02/03
Lab Sample ID:	N54554-18	Date Received:	12/03/03
Matrix:	SO - Soil	Percent Solids:	79.6
Method:	SW846 8082 SW846 3550B		
Project:	RFP# 4229		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF48071.D	1	12/13/03	OYA	12/03/03	OP15534	GEF2413
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.5 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.0	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.3	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.7	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.6	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.1	ug/kg	
11097-69-1	Aroclor 1254	323	21	2.0	ug/kg	
11096-82-5	Aroclor 1260	136	21	3.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	80%		26-142%
877-09-8	Tetrachloro-m-xylene	83%		26-142%
2051-24-3	Decachlorobiphenyl	97%		32-153%
2051-24-3	Decachlorobiphenyl	93%		32-153%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: CDFF61A
Lab Sample ID: N54554-18
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 79.6

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	79.6		%	1	12/04/03	TC	EPA 160.3 M

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CDF67C	Date Sampled:	12/02/03
Lab Sample ID:	N54554-19	Date Received:	12/03/03
Matrix:	SO - Soil	Percent Solids:	85.1
Method:	SW846 8082 SW846 3550B		
Project:	RFP# 4229		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	EF48072.D	1	12/13/03	OYA	12/03/03	OP15534	GEF2413

Run #1	Initial Weight	Final Volume
Run #2	30.8 g	10.0 ml

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	19	2.7	ug/kg	
11104-28-2	Aroclor 1221	ND	19	5.8	ug/kg	
11141-16-5	Aroclor 1232	ND	19	4.3	ug/kg	
53469-21-9	Aroclor 1242	ND	19	3.3	ug/kg	
12672-29-6	Aroclor 1248	ND	19	2.9	ug/kg	
11097-69-1	Aroclor 1254	322	19	1.9	ug/kg	
11096-82-5	Aroclor 1260	95.0	19	3.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	79%		26-142%
877-09-8	Tetrachloro-m-xylene	85%		26-142%
2051-24-3	Decachlorobiphenyl	91%		32-153%
2051-24-3	Decachlorobiphenyl	86%		32-153%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDFF67C
Lab Sample ID: N54554-19
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 85.1

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	85.1		%	1	12/04/03	TC	EPA 160.3 M

Report of Analysis

Client Sample ID:	CDFF57A	Date Sampled:	12/02/03
Lab Sample ID:	N54554-20	Date Received:	12/03/03
Matrix:	SO - Soil	Percent Solids:	73.7
Method:	SW846 8082 SW846 3550B		
Project:	RFP# 4229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47935.D	1	12/08/03	OYA	12/03/03	OP15535	GEF2409
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	22	3.2	ug/kg	
11104-28-2	Aroclor 1221	ND	22	6.8	ug/kg	
11141-16-5	Aroclor 1232	ND	22	5.1	ug/kg	
53469-21-9	Aroclor 1242	ND	22	3.9	ug/kg	
12672-29-6	Aroclor 1248	ND	22	3.4	ug/kg	
11097-69-1	Aroclor 1254	283	22	2.2	ug/kg	5
11096-82-5	Aroclor 1260	124	22	4.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	89%		26-142%
877-09-8	Tetrachloro-m-xylene	92%		26-142%
2051-24-3	Decachlorobiphenyl	89%		32-153%
2051-24-3	Decachlorobiphenyl	92%		32-153%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDFF57A
Lab Sample ID: N54554-20
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 73.7

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	73.7		%	1	12/04/03	TC	EPA 160.3 M

Report of Analysis

Page 1 of 1

Client Sample ID:	CDF67D	Date Sampled:	12/02/03
Lab Sample ID:	N54554-21	Date Received:	12/03/03
Matrix:	SO - Soil	Percent Solids:	79.8
Method:	SW846 8082 SW846 3550B		
Project:	RFP# 4229		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	EF47966.D	1	12/09/03	OYA	12/03/03	OP15534	GEF2410

Run #1	Initial Weight	Final Volume
Run #2	30.3 g	10.0 ml

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.0	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.3	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.7	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.6	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.1	ug/kg	
11097-69-1	Aroclor 1254	214	21	2.0	ug/kg	
11096-82-5	Aroclor 1260	57.0	21	3.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	88%		26-142%
877-09-8	Tetrachloro-m-xylene	91%		26-142%
2051-24-3	Decachlorobiphenyl	99%		32-153%
2051-24-3	Decachlorobiphenyl	96%		32-153%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID: CDFF67D
Lab Sample ID: N54554-21
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 79.8

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	79.8		%	1	12/04/03	TC	EPA 160.3 M

Report of Analysis

Client Sample ID:	CDF67B	Date Sampled:	12/02/03
Lab Sample ID:	N54554-22	Date Received:	12/03/03
Matrix:	SO - Soil	Percent Solids:	87.4
Method:	SW846 8082 SW846 3550B		
Project:	RFP# 4229		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47936.D	1	12/08/03	OYA	12/03/03	OP15535	GEF2409
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	19	2.7	ug/kg	
11104-28-2	Aroclor 1221	ND	19	5.8	ug/kg	
11141-16-5	Aroclor 1232	ND	19	4.3	ug/kg	
53469-21-9	Aroclor 1242	ND	19	3.3	ug/kg	
12672-29-6	Aroclor 1248	ND	19	2.9	ug/kg	
11097-69-1	Aroclor 1254	336	19	1.9	ug/kg	
11096-82-5	Aroclor 1260	109	19	3.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	86%		26-142%
877-09-8	Tetrachloro-m-xylene	88%		26-142%
2051-24-3	Decachlorobiphenyl	79%		32-153%
2051-24-3	Decachlorobiphenyl	80%		32-153%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDF67B
Lab Sample ID: N54554-22
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 87.4

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	87.4		%	1	12/05/03	TC	ASTM 4643-00

OK
02/04/04

Report of Analysis

Client Sample ID:	CDFF41A	Date Sampled:	12/02/03
Lab Sample ID:	N54554-23	Date Received:	12/03/03
Matrix:	SO - Soil	Percent Solids:	78.4
Method:	SW846 8082 SW846 3550B		
Project:	RFP# 4229		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47950.D	1	12/09/03	OYA	12/03/03	OP15535	GEF2409
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.0	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.4	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.8	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.7	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.2	ug/kg	
11097-69-1	Aroclor 1254	ND	21	2.1	ug/kg	
11096-82-5	Aroclor 1260	ND	21	3.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	78%		26-142%
877-09-8	Tetrachloro-m-xylene	84%		26-142%
2051-24-3	Decachlorobiphenyl	80%		32-153%
2051-24-3	Decachlorobiphenyl	79%		32-153%

02/06/04

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDFF41A
Lab Sample ID: N54554-23
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 78.4

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	78.4		%	1	12/04/03	TC	EPA 160.3 M

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CDFF64A	Date Sampled:	12/02/03
Lab Sample ID:	N54554-24	Date Received:	12/03/03
Matrix:	SO - Soil	Percent Solids:	77.0
Method:	SW846 8082 SW846 3550B		
Project:	RFP# 4229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47937.D	1	12/08/03	OYA	12/03/03	OP15535	GEF2409
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	22	3.1	ug/kg	
11104-28-2	Aroclor 1221	ND	22	6.6	ug/kg	
11141-16-5	Aroclor 1232	ND	22	4.9	ug/kg	
53469-21-9	Aroclor 1242	ND	22	3.7	ug/kg	
12672-29-6	Aroclor 1248	ND	22	3.3	ug/kg	
11097-69-1	Aroclor 1254	198	22	2.1	ug/kg	J
11096-82-5	Aroclor 1260	91.3	22	3.8	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	91%		26-142%
877-09-8	Tetrachloro-m-xylene	95%		26-142%
2051-24-3	Decachlorobiphenyl	87%		32-153%
2051-24-3	Decachlorobiphenyl	89%		32-153%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDFF64A
Lab Sample ID: N54554-24
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 77.0

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	77		%	1	12/04/03	TC	EPA 160.3 M

Report of Analysis

Client Sample ID:	CDF56A	Date Sampled:	12/02/03
Lab Sample ID:	N54554-25	Date Received:	12/03/03
Matrix:	SO - Soil	Percent Solids:	77.3
Method:	SW846 8082 SW846 3550B		
Project:	RFP# 4229		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47938.D	1	12/08/03	OYA	12/03/03	OP15535	GEF2409
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.1	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.5	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.9	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.7	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.2	ug/kg	
11097-69-1	Aroclor 1254	251	21	2.1	ug/kg	
11096-82-5	Aroclor 1260	134	21	3.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	78%		26-142%
877-09-8	Tetrachloro-m-xylene	82%		26-142%
2051-24-3	Decachlorobiphenyl	80%		32-153%
2051-24-3	Decachlorobiphenyl	81%		32-153%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDFF56A
Lab Sample ID: N54554-25
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 77.3

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	77.3		%	1	12/04/03	TC	EPA 160.3 M

Report of Analysis

Page 1 of 1

Client Sample ID:	CDF48A	Date Sampled:	12/02/03
Lab Sample ID:	N54554-26	Date Received:	12/03/03
Matrix:	SO - Soil	Percent Solids:	76.4
Method:	SW846 8082 SW846 3550B		
Project:	RFP# 4229		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB43577.D	1	12/06/03	OYA	12/04/03	OP15539	GAB2138
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.5 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.1	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.5	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.9	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.7	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.2	ug/kg	
11097-69-1	Aroclor 1254 ^a	75.3	21	2.1	ug/kg	J
11096-82-5	Aroclor 1260 ^a	31.3	21	3.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	44%		26-142%
877-09-8	Tetrachloro-m-xylene	49%		26-142%
2051-24-3	Decachlorobiphenyl	61%		32-153%
2051-24-3	Decachlorobiphenyl	49%		32-153%

(a) Reported from 1st signal.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDFF48A
Lab Sample ID: N54554-26
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 76.4

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	76.4		%	1	12/05/03	TC	ASTM 4643-00

Report of Analysis

Client Sample ID:	CDF54A	Date Sampled:	12/02/03
Lab Sample ID:	N54554-27	Date Received:	12/03/03
Matrix:	SO - Soil	Percent Solids:	76.2
Method:	SW846 8082 SW846 3550B		
Project:	RFP# 4229		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47939.D	1	12/08/03	OYA	12/03/03	OP15535	GEF2409
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	22	3.1	ug/kg	
11104-28-2	Aroclor 1221	ND	22	6.6	ug/kg	
11141-16-5	Aroclor 1232	ND	22	5.0	ug/kg	
53469-21-9	Aroclor 1242	ND	22	3.7	ug/kg	
12672-29-6	Aroclor 1248	ND	22	3.3	ug/kg	
11097-69-1	Aroclor 1254	267	22	2.1	ug/kg	
11096-82-5	Aroclor 1260	147	22	3.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	86%		26-142%
877-09-8	Tetrachloro-m-xylene	89%		26-142%
2051-24-3	Decachlorobiphenyl	82%		32-153%
2051-24-3	Decachlorobiphenyl	82%		32-153%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDFF54A
Lab Sample ID: N54554-27
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 76.2

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	76.2		%	1	12/04/03	TC	EPA 160.3 M

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CDFF55A	Date Sampled:	12/02/03
Lab Sample ID:	N54554-28	Date Received:	12/03/03
Matrix:	SO - Soil	Percent Solids:	75.2
Method:	SW846 8082 SW846 3550B		
Project:	RFP# 4229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47943.D	1	12/09/03	OYA	12/03/03	OP15535	GEF2409
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	22	3.2	ug/kg	
11104-28-2	Aroclor 1221	ND	22	6.7	ug/kg	
11141-16-5	Aroclor 1232	ND	22	5.0	ug/kg	
53469-21-9	Aroclor 1242	ND	22	3.8	ug/kg	
12672-29-6	Aroclor 1248	ND	22	3.3	ug/kg	
11097-69-1	Aroclor 1254	180	22	2.2	ug/kg	
11096-82-5	Aroclor 1260	94.2	22	3.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	80%		26-142%
877-09-8	Tetrachloro-m-xylene	88%		26-142%
2051-24-3	Decachlorobiphenyl	80%		32-153%
2051-24-3	Decachlorobiphenyl	83%		32-153%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDFF55A
Lab Sample ID: N54554-28
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 75.2

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	75.2		%	1	12/04/03	TC	EPA 160.3 M

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CDFF66D	Date Sampled:	12/02/03
Lab Sample ID:	N54554-29	Date Received:	12/03/03
Matrix:	SO - Soil	Percent Solids:	80.8
Method:	SW846 8082 SW846 3550B		
Project:	RFP# 4229		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47944.D	1	12/09/03	OYA	12/03/03	OP15535	GEF2409
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	20	2.9	ug/kg	
11104-28-2	Aroclor 1221	ND	20	6.2	ug/kg	
11141-16-5	Aroclor 1232	ND	20	4.7	ug/kg	
53469-21-9	Aroclor 1242	ND	20	3.5	ug/kg	
12672-29-6	Aroclor 1248	ND	20	3.1	ug/kg	
11097-69-1	Aroclor 1254	124	20	2.0	ug/kg	
11096-82-5	Aroclor 1260	41.7	20	3.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	86%		26-142%
877-09-8	Tetrachloro-m-xylene	100%		26-142%
2051-24-3	Decachlorobiphenyl	86%		32-153%
2051-24-3	Decachlorobiphenyl	88%		32-153%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

22/06/04

Report of Analysis

Client Sample ID: CDFF66D
Lab Sample ID: N54554-29
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 80.8

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	80.8		%	1	12/05/03	TC	ASTM 4643-00

Report of Analysis

Client Sample ID:	CDF66C	Date Sampled:	12/02/03
Lab Sample ID:	N54554-30	Date Received:	12/03/03
Matrix:	SO - Soil	Percent Solids:	83.2
Method:	SW846 8082 SW846 3550B		
Project:	RFP# 4229		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47945.D	1	12/09/03	OYA	12/03/03	OP15535	GEF2409
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	20	2.9	ug/kg	
11104-28-2	Aroclor 1221	ND	20	6.1	ug/kg	
11141-16-5	Aroclor 1232	ND	20	4.6	ug/kg	
53469-21-9	Aroclor 1242	ND	20	3.5	ug/kg	
12672-29-6	Aroclor 1248	ND	20	3.0	ug/kg	
11097-69-1	Aroclor 1254	454	20	2.0	ug/kg	
11096-82-5	Aroclor 1260	165	20	3.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	81%		26-142%
877-09-8	Tetrachloro-m-xylene	88%		26-142%
2051-24-3	Decachlorobiphenyl	85%		32-153%
2051-24-3	Decachlorobiphenyl	84%		32-153%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

02/04/04

Report of Analysis

Page 1 of 1

Client Sample ID: CDFF66C
Lab Sample ID: N54554-30
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 83.2

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	83.2		%	1	12/05/03	TC	ASTM 4643-00

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CDFF66B	Date Sampled:	12/02/03
Lab Sample ID:	N54554-31	Date Received:	12/03/03
Matrix:	SO - Soil	Percent Solids:	81.9
Method:	SW846 8082 SW846 3550B		
Project:	RFP# 4229		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47946.D	1	12/09/03	OYA	12/03/03	OP15535	GEF2409
Run #2	EF47983.D	4	12/10/03	OYA	12/03/03	OP15535	GEF2410

Run #	Initial Weight	Final Volume
Run #1	30.2 g	10.0 ml
Run #2	30.2 g	10.0 ml

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	20	2.9	ug/kg	
11104-28-2	Aroclor 1221	ND	20	6.1	ug/kg	
11141-16-5	Aroclor 1232	ND	20	4.6	ug/kg	
53469-21-9	Aroclor 1242	ND	20	3.5	ug/kg	
12672-29-6	Aroclor 1248	ND	20	3.1	ug/kg	
11097-69-1	Aroclor 1254	1860 ^a	81	7.9	ug/kg	
11096-82-5	Aroclor 1260	625	20	3.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	88%	86%	26-142%
877-09-8	Tetrachloro-m-xylene	93%	86%	26-142%
2051-24-3	Decachlorobiphenyl	80%	109%	32-153%
2051-24-3	Decachlorobiphenyl	82%	116%	32-153%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

02/06/04

Report of Analysis

Page 1 of 1

Client Sample ID: CDFF66B
Lab Sample ID: N54554-31
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 81.9

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	81.9		%	1	12/05/03	TC	ASTM 4643-00

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CDF40A1	Date Sampled:	12/02/03
Lab Sample ID:	N54554-32	Date Received:	12/03/03
Matrix:	SO - Soil	Percent Solids:	79.1
Method:	SW846 8082 SW846 3550B		
Project:	RFP# 4229		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47947.D	1	12/09/03	OYA	12/03/03	OP15535	GEF2409
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.4 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.0	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.3	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.7	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.6	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.1	ug/kg	
11097-69-1	Aroclor 1254	ND	21	2.0	ug/kg	
11096-82-5	Aroclor 1260	ND	21	3.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	68%		26-142%
877-09-8	Tetrachloro-m-xylene	91%		26-142%
2051-24-3	Decachlorobiphenyl	82%		32-153%
2051-24-3	Decachlorobiphenyl	82%		32-153%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDFF40A1

Lab Sample ID: N54554-32

Matrix: SO - Soil

Project: RFP# 4229

Date Sampled: 12/02/03

Date Received: 12/03/03

Percent Solids: 79.1

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	79.1		%	1	12/04/03	TC	EPA 160.3 M

RL = Reporting Limit

Report of Analysis

Client Sample ID: CDFF40A
 Lab Sample ID: N54554-33
 Matrix: SO - Soil
 Method: SW846 8082 SW846 3550B
 Project: RFP# 4229

Date Sampled: 12/02/03
 Date Received: 12/03/03
 Percent Solids: 77.3

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47948.D	1	12/09/03	OYA	12/03/03	OP15535	GEF2409
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.1	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.5	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.9	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.7	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.3	ug/kg	
11097-69-1	Aroclor 1254	ND	21	2.1	ug/kg	
11096-82-5	Aroclor 1260	ND	21	3.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	78%		26-142%
877-09-8	Tetrachloro-m-xylene	88%		26-142%
2051-24-3	Decachlorobiphenyl	82%		32-153%
2051-24-3	Decachlorobiphenyl	82%		32-153%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CDFF40A	Date Sampled:	12/02/03
Lab Sample ID:	N54554-33	Date Received:	12/03/03
Matrix:	SO - Soil	Percent Solids:	77.3
Project:	RFP# 4229		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	77.3		%	1	12/04/03	TC	EPA 160.3 M

02/04/04

Report of Analysis

Client Sample ID:	CDFF42A	Date Sampled:	12/02/03
Lab Sample ID:	N54554-34	Date Received:	12/03/03
Matrix:	SO - Soil	Percent Solids:	76.9
Method:	SW846 8082 SW846 3550B		
Project:	RFP# 4229		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47949.D	1	12/09/03	OYA	12/03/03	OP15535	GEF2409
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.1	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.5	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.9	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.7	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.2	ug/kg	
11097-69-1	Aroclor 1254	457	21	2.1	ug/kg	J
11096-82-5	Aroclor 1260	138	21	3.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	77%		26-142%
877-09-8	Tetrachloro-m-xylene	84%		26-142%
2051-24-3	Decachlorobiphenyl	77%		32-153%
2051-24-3	Decachlorobiphenyl	74%		32-153%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDFF42A
Lab Sample ID: N54554-34
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 76.9

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	76.9		%	1	12/04/03	TC	EPA 160.3 M

Report of Analysis

Client Sample ID:	CDDFF33A	Date Sampled:	12/02/03
Lab Sample ID:	N54554-35	Date Received:	12/03/03
Matrix:	SO - Soil	Percent Solids:	79.8
Method:	SW846 8082 SW846 3550B		
Project:	RFP# 4229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47977.D	1	12/10/03	OYA	12/03/03	OP15535	GEF2410
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.0	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.3	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.7	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.6	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.1	ug/kg	
11097-69-1	Aroclor 1254	264	21	2.0	ug/kg	
11096-82-5	Aroclor 1260	96.3	21	3.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	86%		26-142%
877-09-8	Tetrachloro-m-xylene	90%		26-142%
2051-24-3	Decachlorobiphenyl	98%		32-153%
2051-24-3	Decachlorobiphenyl	97%		32-153%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDFF33A
Lab Sample ID: N54554-35
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 79.8

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	79.8		%	1	12/04/03	TC	EPA 160.3 M

RL = Reporting Limit

62/50/09
79

Report of Analysis

Client Sample ID:	CDFF34A	Date Sampled:	12/02/03
Lab Sample ID:	N54554-36	Date Received:	12/03/03
Matrix:	SO - Soil	Percent Solids:	77.1
Method:	SW846 8082 SW846 3550B		
Project:	RFP# 4229		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47978.D	1	12/10/03	OYA	12/03/03	OP15535	GEF2410
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.1	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.5	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.9	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.7	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.2	ug/kg	
11097-69-1	Aroclor 1254	485	21	2.1	ug/kg	
11096-82-5	Aroclor 1260	180	21	3.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	76%		26-142%
877-09-8	Tetrachloro-m-xylene	83%		26-142%
2051-24-3	Decachlorobiphenyl	94%		32-153%
2051-24-3	Decachlorobiphenyl	96%		32-153%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDFF34A

Lab Sample ID: N54554-36

Matrix: SO - Soil

Project: RFP# 4229

Date Sampled: 12/02/03

Date Received: 12/03/03

Percent Solids: 77.1

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	77.1		%	1	12/04/03	TC	EPA 160.3 M

Report of Analysis

Client Sample ID:	CDFF37A	Date Sampled:	12/02/03
Lab Sample ID:	N54554-37	Date Received:	12/03/03
Matrix:	SO - Soil	Percent Solids:	75.9
Method:	SW846 8082 SW846 3550B		
Project:	RFP# 4229		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47979.D	1	12/10/03	OYA	12/03/03	OP15535	GEF2410
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.4 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	22	3.1	ug/kg	
11104-28-2	Aroclor 1221	ND	22	6.6	ug/kg	
11141-16-5	Aroclor 1232	ND	22	4.9	ug/kg	
53469-21-9	Aroclor 1242	ND	22	3.7	ug/kg	
12672-29-6	Aroclor 1248	ND	22	3.3	ug/kg	
11097-69-1	Aroclor 1254	664	22	2.1	ug/kg	
11096-82-5	Aroclor 1260	217	22	3.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	78%		26-142%
877-09-8	Tetrachloro-m-xylene	81%		26-142%
2051-24-3	Decachlorobiphenyl	91%		32-153%
2051-24-3	Decachlorobiphenyl	96%		32-153%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDFF37A
Lab Sample ID: N54554-37
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 75.9

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	75.9		%	1	12/04/03	TC	EPA 160.3 M

Report of Analysis

Client Sample ID:	CDF36A	Date Sampled:	12/02/03
Lab Sample ID:	N54554-38	Date Received:	12/03/03
Matrix:	SO - Soil	Percent Solids:	70.6
Method:	SW846 8082 SW846 3550B		
Project:	RFP# 4229		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47940.D	1	12/08/03	OYA	12/03/03	OP15535	GEF2409
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	23	3.4	ug/kg	
11104-28-2	Aroclor 1221	ND	23	7.1	ug/kg	
11141-16-5	Aroclor 1232	ND	23	5.3	ug/kg	
53469-21-9	Aroclor 1242	ND	23	4.0	ug/kg	
12672-29-6	Aroclor 1248	ND	23	3.6	ug/kg	
11097-69-1	Aroclor 1254 ^a	468	23	2.3	ug/kg	
11096-82-5	Aroclor 1260	142	23	4.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	87%		26-142%
877-09-8	Tetrachloro-m-xylene	90%		26-142%
2051-24-3	Decachlorobiphenyl	87%		32-153%
2051-24-3	Decachlorobiphenyl	87%		32-153%

(a) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDFF36A
Lab Sample ID: N54554-38
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 70.6

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	70.6		%	1	12/04/03	TC	EPA 160.3 M

Report of Analysis

Client Sample ID:	CDF35A	Date Sampled:	12/02/03
Lab Sample ID:	N54554-39	Date Received:	12/03/03
Matrix:	SO - Soil	Percent Solids:	74.9
Method:	SW846 8082 SW846 3550B		
Project:	RFP# 4229		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47980.D	1	12/10/03	OYA	12/03/03	OP15535	GEF2410
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	22	3.2	ug/kg	
11104-28-2	Aroclor 1221	ND	22	6.7	ug/kg	
11141-16-5	Aroclor 1232	ND	22	5.0	ug/kg	
53469-21-9	Aroclor 1242	ND	22	3.8	ug/kg	
12672-29-6	Aroclor 1248	ND	22	3.3	ug/kg	
11097-69-1	Aroclor 1254	652	22	2.2	ug/kg	
11096-82-5	Aroclor 1260	209	22	3.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	83%		26-142%
877-09-8	Tetrachloro-m-xylene	82%		26-142%
2051-24-3	Decachlorobiphenyl	104%		32-153%
2051-24-3	Decachlorobiphenyl	101%		32-153%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDFF35A
Lab Sample ID: N54554-39
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 74.9

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	74.9		%	1	12/04/03	TC	EPA 160.3 M

Report of Analysis

Client Sample ID:	CDF65D	Date Sampled:	12/02/03
Lab Sample ID:	N54554-40	Date Received:	12/03/03
Matrix:	SO - Soil	Percent Solids:	86.1
Method:	SW846 8082 SW846 3550B		
Project:	RFP# 4229		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47981.D	1	12/10/03	OYA	12/03/03	OP15535	GEF2410
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	19	2.7	ug/kg	
11104-28-2	Aroclor 1221	ND	19	5.8	ug/kg	
11141-16-5	Aroclor 1232	ND	19	4.4	ug/kg	
53469-21-9	Aroclor 1242	ND	19	3.3	ug/kg	
12672-29-6	Aroclor 1248	ND	19	2.9	ug/kg	
11097-69-1	Aroclor 1254	112	19	1.9	ug/kg	
11096-82-5	Aroclor 1260	ND	19	3.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	90%		26-142%
877-09-8	Tetrachloro-m-xylene	92%		26-142%
2051-24-3	Decachlorobiphenyl	94%		32-153%
2051-24-3	Decachlorobiphenyl	103%		32-153%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDFF65D
Lab Sample ID: N54554-40
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 86.1

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	86.1		%	1	12/04/03	TC	EPA 160.3 M

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CDF39A	Date Sampled:	12/02/03
Lab Sample ID:	N54554-41	Date Received:	12/03/03
Matrix:	SO - Soil	Percent Solids:	78.9
Method:	SW846 8082 SW846 3550B		
Project:	RFP# 4229		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF47982.D	1	12/10/03	OYA	12/03/03	OP15535	GEF2410
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	3.0	ug/kg	
11104-28-2	Aroclor 1221	ND	21	6.4	ug/kg	
11141-16-5	Aroclor 1232	ND	21	4.8	ug/kg	
53469-21-9	Aroclor 1242	ND	21	3.6	ug/kg	
12672-29-6	Aroclor 1248	ND	21	3.2	ug/kg	
11097-69-1	Aroclor 1254	296	21	2.1	ug/kg	3
11096-82-5	Aroclor 1260	182	21	3.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	87%		26-142%
877-09-8	Tetrachloro-m-xylene	90%		26-142%
2051-24-3	Decachlorobiphenyl	106%		32-153%
2051-24-3	Decachlorobiphenyl	99%		32-153%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDF39A

Lab Sample ID: N54554-41

Matrix: SO - Soil

Project: RFP# 4229

Date Sampled: 12/02/03

Date Received: 12/03/03

Percent Solids: 78.9

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	78.9		%	1	12/04/03	TC	EPA 160.3 M

Report of Analysis

Client Sample ID:	CDFF38A	Date Sampled:	12/02/03
Lab Sample ID:	N54554-42	Date Received:	12/03/03
Matrix:	SO - Soil	Percent Solids:	70.6
Method:	SW846 8082 SW846 3550B		
Project:	RFP# 4229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB43578.D	1	12/06/03	OYA	12/04/03	OP15539	GAB2138
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	24	3.4	ug/kg	
11104-28-2	Aroclor 1221	ND	24	7.2	ug/kg	
11141-16-5	Aroclor 1232	ND	24	5.4	ug/kg	
53469-21-9	Aroclor 1242	ND	24	4.1	ug/kg	
12672-29-6	Aroclor 1248	ND	24	3.6	ug/kg	
11097-69-1	Aroclor 1254 ^a	884	24	2.3	ug/kg	
11096-82-5	Aroclor 1260 ^a	171	24	4.2	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	79%		26-142%
877-09-8	Tetrachloro-m-xylene	68%		26-142%
2051-24-3	Decachlorobiphenyl	111%		32-153%
2051-24-3	Decachlorobiphenyl	103%		32-153%

(a) Report from 1st signal.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDF38A
Lab Sample ID: N54554-42
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 70.6

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	70.6		%	1	12/04/03	TC	EPA 160.3 M

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CDF65C	Date Sampled:	12/02/03
Lab Sample ID:	N54554-43	Date Received:	12/03/03
Matrix:	SO - Soil	Percent Solids:	82.9
Method:	SW846 8082 SW846 3550B		
Project:	RFP# 4229		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB43581.D	1	12/06/03	OYA	12/04/03	OP15539	GAB2138
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.5 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	20	2.8	ug/kg	
11104-28-2	Aroclor 1221	ND	20	6.0	ug/kg	
11141-16-5	Aroclor 1232	ND	20	4.5	ug/kg	
53469-21-9	Aroclor 1242	ND	20	3.4	ug/kg	
12672-29-6	Aroclor 1248	ND	20	3.0	ug/kg	
11097-69-1	Aroclor 1254 ^a	142	20	1.9	ug/kg	J
11096-82-5	Aroclor 1260 ^b	44.6	20	3.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	82%		26-142%
877-09-8	Tetrachloro-m-xylene	71%		26-142%
2051-24-3	Decachlorobiphenyl	102%		32-153%
2051-24-3	Decachlorobiphenyl	95%		32-153%

(a) Reported from 1st signal. More than 40 % RPD for detected concentrations between the two GC columns.

(b) Report from 1st signal.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CDFF65C
Lab Sample ID: N54554-43
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 82.9

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	82.9		%	1	12/05/03	TC	ASTM 4643-00

Report of Analysis

Client Sample ID:	CDFF65B	Date Sampled:	12/02/03
Lab Sample ID:	N54554-44	Date Received:	12/03/03
Matrix:	SO - Soil	Percent Solids:	82.2
Method:	SW846 8082 SW846 3550B		
Project:	RFP# 4229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB43582.D	1	12/06/03	OYA	12/04/03	OP15539	GAB2138
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	20	2.9	ug/kg	
11104-28-2	Aroclor 1221	ND	20	6.1	ug/kg	
11141-16-5	Aroclor 1232	ND	20	4.6	ug/kg	
53469-21-9	Aroclor 1242	ND	20	3.5	ug/kg	
12672-29-6	Aroclor 1248	ND	20	3.1	ug/kg	
11097-69-1	Aroclor 1254 ^a	293	20	2.0	ug/kg	J
11096-82-5	Aroclor 1260 ^a	79.2	20	3.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	84%		26-142%
877-09-8	Tetrachloro-m-xylene	81%		26-142%
2051-24-3	Decachlorobiphenyl	103%		32-153%
2051-24-3	Decachlorobiphenyl	93%		32-153%

(a) Report from 1st signal.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: CDFF65B
Lab Sample ID: N54554-44
Matrix: SO - Soil
Project: RFP# 4229

Date Sampled: 12/02/03
Date Received: 12/03/03
Percent Solids: 82.2

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	82.2		%	1	12/04/03	TC	EPA 160.3 M

RL = Reporting Limit

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